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 1069
RETURN RECEIPT REQUESTED

November 2, 2011

NOTICE OF PERMIT

In the matter of an
Application for Permit by:

A.C.M.S., Inc.
Mr. Charles Dean, Jr., President
PO Box 949
Lake Panasoffkee, Fl. 33538

Modification #161263-007-SO/MM to
Permit #161263-004-SO/01,
Sumter County
WACS Id#85764

Dear Mr. Dean:

Attached is modified **Permit** 161263-004-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 161263-007-SO/MM:

SPECIFIC CONDITIONS	**FROM**	**TO**	**TYPE OF MODIFICATION**
A.2.a(1)	Existing	Amended	Referenced new Operations Plan
A.2.d.	N/A	New	Referenced new documentation

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

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice. Petitions filed by other persons must be filed within 14 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

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

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;

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

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

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

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

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

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

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

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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case under the provisions of that statute. This does not prevent any interested parties from agreeing to other forms of alternate dispute resolution.

Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Gary S. Colecchio
District Director
Southwest District

PVG/sjp
Attachment

Copies furnished to:
Sumter County Elected Officials Notification
Marilyn Connell, mconnell@sumtersolidwaste.com
Don Hullings, P.E., JEA, dhullings@jonesedmunds.com
Delores Iannoti, deeno101@embarqmail.com
George & Lynne Shinn, vbslyn@embarqmail.com
Richard Tedder, P.E., FDEP Tallahassee
Frank Hornbrook, FDEP Tallahassee
Allyson Minick/Douglas Hyman, P.E, FDEP Tampa, ERP
Ronni Moore, FDEP OGC
John Morris, P.G., FDEP Tampa
Susan Pelz, P.E., FDEP Tampa
Ana Gibbs, FDEP Tampa
(Permit Notebook)
Gary S. Colecchio, FDEP Tampa

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed or transmitted electronically before the close of business on Nov 2, 2011 (date stamp) 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.

Anna Brantley 11/2/2011
Clerk Date

Florida Department of Environmental Protection

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

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PERMITTEE
A.C.M.S. Inc.
Mr. Charlie Dean Jr., President
PO Box 949
Lake Panasoffkee, Fl. 33538

PERMIT/CERTIFICATION
WACS ID No: SWD/60/85764
Permit No: **161263-004-SO/01**
Date of Issue: **12/21/2010**
Expiration Date: **12/21/2015**
County: Sumter
Lat/Long: 28°44'20"
82°05'45"
Sec/Town/Rge: 22/20S/22E
Project: ACMS Class I Landfill operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate a **Class I Solid Waste Landfill** (approximately 58.8 acres), referred to as the ACMS Class I Landfill, subject to the specific and general conditions attached, located off CR 529 near Sumterville, Sumter County, Florida. The general and specific conditions attached are for the operation of:

1. Class I Landfill,
2. Leachate storage tanks system

and related appurtenances

Replaces Permit No.: N/A, new

Includes Modification #161263-007-SO/MM dated 11/2/2011.

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:

Disposal acres	Approx. 58.8 acres (Cells 1 through 4) [ref. SC#A.2.a., App. Form B.3]
Lowest Bottom elevation of cell (subgrade under lower GCL)	+48.0 ft. NGVD [ref. SC#A.2.c., Sheet C-22]
Top elevation at final buildout	max. +307.5 feet NGVD [ref. SC#A.2.c., Sheet FC-5]
Sideslopes max.	3H:1V [ref. SC#A.2.c., Sheets FC-1 through FC-4]
Liner system (bottom to top)	Compacted soil subgrade GCL protective geomembrane (sumps only-SC#A.2.c., Sheet C-23) geosynthetic clay liner (GCL)(<1 x 10^{-7} cm/sec), 60 mil textured HDPE geomembrane, geocomposite (non-woven GT/geonet/non-woven GT), 60 mil textured HDPE geomembrane, geocomposite (non-woven GT/geonet/non-woven GT), 2-foot drainage sand (1 x 10^{-3} cm/sec), [ref. SC#A.2.c., Detail 2/Sheet C-20; Specs. GCL-§02072-Table 2; GC-§02070; sand-§02301-2.05.B]
LCS drainage system	Drainage/protective sand ≥ 1 x 10^{-3} cm/sec [ref. Spec. 02301-2.05.B.3.] 10-inch SDR 11 HDPE perforated LCS piping [SC #A.2.c., Detail 3/Sheet C-20] Slope=0.30% after settlement [SC#A.2.a., Egr Rpt, Part I.1.d(2)7.] Each cell: center trench gravity draining from west to east. Sideslope risers to forcemain (6-inch SDR 11 HDPE SC#A.2.c., Section A, Sheet M-4) to tanks.
LDS drainage system Action leakage rate (ALR)	Geocomposite to center trench (no pipe except in sump) and sump [SC#A.2.c., Detail 3/Sheet C-20], then same as LCS Max. 166 gal/ac/day [ref. SC#A.2.a., Egr Rpt, Attachment G.2.c(2)-1, Exhibit 5]
Leachate recirculation	none
Design life	Approx. 9 years (Cells 1 through 4) [ref. SC#A.2.a., Egr Rpt Part E.4.c.]
Interface friction angles	All interfaces=12° min. over moderate to high loading conditions, shear strengths listed in Spec. [Spec. §02071-2.02.A., §02072-Table 2; §]
Leachate storage tanks	Six 45,500 (approx.) gallon fiberglass storage tanks inside concrete secondary containment [SC #A.2.c., Sheets C-6, M-2, M-3]

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 Statues after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

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

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

13. This permit also constitutes:

(a) Determination of Best Available Control Technology (BACT)

(b) Determination of Prevention of Significant Deterioration (PSD)

(c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)

(d) Compliance with New Source Performance Standards

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

1. **Facility Designation.** This facility shall be classified as a Class I landfill and shall be constructed, operated, closed, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-302, 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 the Class I landfill (Cells 1-4) and related systems (including leachate collection and detection systems, leachate storage tanks system, etc.), at the ACMS Class I Landfill in accordance with Department rules and the reports, plans and other information prepared by Jones Edmunds & Associates (JEA) (unless otherwise specified) as follows:

a. ACMS Class I Landfill Solid Waste Permit Application,… (two 3-ring binders) dated July 2010 (received July 7, 2010), as revised, replaced or amended (information collated into original as appropriate) dated September 14, 2010 (received September 16, 2010), September 29, 2010 (received September 30, 2010), October 5, 2010 (received October 6, 2010), October 27, 2010 (received October 28, 2010) and November 8, 2010 (received via email). This information includes, but is not limited to:

1) Operation Plan [Op Plan], Appendix A (replaced by information ref. in SC #A.2.d., below)
Amended 11/2/2011.

2) Water Quality and Leachate Monitoring Requirements (Part L)

3) Closure and Long-Term Care Plan, Appendix C

b. Response to Request for Additional Information,… dated September 14, 2010 (received September 16, 2010) (one 3-ring binder), this binder includes information not otherwise inserted into the document listed in SC#A.2.a. above, and is not limited to:

1) "Supplemental Information to Response to FDEP Request for Additional Information,…" dated September 29, 2010 (received September 30, 2010);

2) "Additional Information Addendum,…" dated October 27, 2010 (received October 28, 2010);

3) "Memorandum of Agreement,… Joint Use of Sumter County Solid Waste Facility to Access Class I Solid Waste Landfill," received October 6, 2010;

c. Plan Sheets titled, ACMS Class I Landfill, Bushnell, Florida,… (45 Sheets) dated July 2010 (received July 7, 2010) as revised, replaced or amended (sheets collated into original) dated September 2010 (received September 16, 2010), and October 27, 2010 (received October 28, 2010).

d. ACMS Class I Landfill Solid Waste Permit Application Minor Modification,… dated August 2011 (received August 17, 2011)(one 3-ring binder), as amended by information received via email September 27, 2011. This information includes, but is not limited to:

1) Operations Plan, dated September 2011 (inserted into Op Plan in Appendix A of document listed in SC#A.2.a(1))

New 11/2/2011.

*** see OCULUS for uncollated submittals**

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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, or unless otherwise approved in writing by the Department. Any changes to the construction or operation at the facility may require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

b. This permit **does not authorize** landfill construction. Construction, operation, or other activities 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, or unless otherwise approved in writing by the Department.

c. This permit **authorizes** the operation of the Class I landfill, and other related appurtenances for Cells 1 through 4.

4. **Permit Renewal. On or before June 15, 2015** the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than October 15, 2015**, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b), F.A.C. In the event that the regulations governing this permitted construction are revised, the permit renewal shall include modification of those specific construction conditions which are affected by the revision of regulations to incorporate those revisions in accordance with Specific Condition A.8.

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

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

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

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

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

a. In the event that limestone is encountered during excavation or construction activities, with the exception of in the area of the sumps in Cells 2 and 3, the excavation/construction activities shall cease and the Department shall be notified **within 24 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed. If limestone is encountered in the areas of the sumps in Cells 2 or 3 the limestone shall be over-excavated by a minimum of 2 feet and backfilled with clay with a hydraulic conductivity of $1x10^{-5}$ cm/sec.

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered on-site, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area 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. Open burning of solid waste (including land clearing debris) 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.

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.

   a. This permit does not authorize construction of the landfill liner, leachate management system, leachate storage tanks system or associated appurtenances. Construction of these systems and other related appurtenances for the Class I landfill is authorized by Construction permit #161263-005-SC/01, or its successors.

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 Drawings [ref. SC#A.2.c., Sheets FC-1 through FC-5], and the Operations Plan [SC#A.2.a(1)], and any other applicable requirements of Department rules.

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. 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 of into surface or ground waters. These materials shall be stored in appropriately labeled containers within spill containment [Op Plan, Exhibit F].

d. **In no event** shall waste be accepted in each constructed cell of the Class I landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of permit #161263-005-SC/01or its successors,

2) Financial assurance requirements of Specific Condition #D.4.c.,

3) Construction of ground water monitoring wells as required by Specific Conditions #E.3., #E.5.b., and #E.5.d.; construction of gas monitoring probes as required by Specific Condition #F.3.,

4) Completion of ground water "initial sampling event" at proposed monitor wells as required by Specific Condition #E.4.b.

5) Construction of the stormwater management system.

e. If the facility has reached its permitted capacity (designed dimensions as shown on the site plans) for any area, the permittee shall not accept additional waste for disposal unless capacity is available in another appropriately designated part of the landfill.

f. All waste shall be unloaded inside the lined landfill footprint. Waste shall not be disposed within five feet of the edge of the liner [SC#A.2.c., Sheet C-20]. Setback areas, the location of stormwater management system features (i.e. DRAs, ponds and swales), and disposal area (Cell) boundaries shall be clearly marked and the markers inspected daily on operating days. The permittee shall use markers which are of a size or design that effectively prevents unauthorized disposal in these areas outside of the disposal area. These markers shall be maintained at all times throughout the operation of the facility to prevent waste disposal in unauthorized areas.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

g. Wastes shall not be disposed (unloaded, spread, or compacted) during non-daylight hours without adequate lighting. In the event that the facility will accept waste in non-daylight hours, the Department shall be notified, and a demonstration of adequate lighting will be required. Facility normal operating hours are 7:00 a.m. to 7:00 p.m. Monday through Friday [Op Plan, §3.0].

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

i. *Unacceptable* Wastes.

1) Unacceptable wastes shall be handled, stored and removed from the site as described in the Operations Plan [§3.1, §3.2, §3.3, §5.1, §5.8, §6.0 et seq] and the conditions of this permit.

2) A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. A trained spotter shall be positioned at the working face to inspect each load from grade level as it is being received, unloaded and as it is spread and compacted [Op Plan, §5.2]. Unauthorized wastes shall be removed from the site for proper disposal in accordance with the Operations Plan [ref. SC#A.2.a(1)].

3) Unacceptable wastes shall be removed from the incoming waste **immediately,** and no other loads shall be unloaded in the immediate vicinity until all unacceptable wastes have been removed and stored in the designated waste containers near the working face. Designated containers shall be located within the lined landfill area [Op Plan, §5.8.]. A sufficient number of containers for storage of unacceptable wastes shall be available at the site at all times.

4) Unacceptable wastes shall be removed prior to compaction. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters may be required.

j. Site Inspections.

1) The owner or operator shall inspect the site for erosion and settlement (low spots and improperly graded areas) daily on operating days. Erosion and settlement shall be repaired in accordance with Specific Condition #C.6.

2) The owner or operator shall inspect the landfill facility for the presence of objectionable odors at the property boundary **daily on operating days.** In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with Specific Condition #C.5.

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily** on operating days. Litter shall be collected and disposed of in the Class I landfill, **at least once per day,** or more often as necessary. [Op Plan, §5.10]. 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)

k. 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.

l. Equipment. In the event of equipment breakdown or scheduled maintenance of essential landfill equipment (such as equipment required for spreading, compacting and covering waste), the owner or operator shall ensure that sufficient reserve equipment is operating at the site within **24 hours** of the occurrence [Op Plan, §7.1]. In the event that sufficient reserve equipment is not obtained within **24 hours**, the facility shall cease operation until sufficient equipment is operating at the site.

m. Fires. The Department shall be notified pursuant to Specific Condition C.6.b. of all fires at the facility [see Op Plan, §11], 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. Trenches cut into the waste shall not be used to extinguish fires without prior Department approval.

2. **Operating Personnel.**

a. At least one trained operator (trained in accordance with the §4.0 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 spotters shall be utilized at the facility for removing unacceptable wastes. Training of spotters shall be in accordance with the §4.0 of the Operations Plan.

c. A sufficient number of trained personnel shall be available to adequately operate the facility in compliance with this permit and Department rules. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste.

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

3. **Control of Access.** Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C. 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 [Op Plan, §5.1]. 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.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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.

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 so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Odors confirmed by Department personnel upon site inspection (including complaint investigations), 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 thirty (30) days** of initial detection, the owner or operator shall submit an odor remediation plan to the Department for approval [Op Plan, §10.5]. The odor remediation 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 storage tank system, cover systems and berms, gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be minimized. Erosion in the stormwater management system shall be minimized.

b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharge, failure of any portion of the landfill systems, damaged or dry groundwater monitoring wells, damaged gas 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.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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 **within 3 days** of discovery [Rule 62-701.500(7)(j), F.A.C., Op Plan §9.3.5.]. For the purposes of this condition, "significant" means:

1) if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or

2) if waste or liner is exposed.

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

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

7. **Stormwater System Management.**

a. The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas and the mixing of stormwater with leachate, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. All stormwater conveyances shall be inspected **at least weekly** and more frequently during the rainy season to verify adequate performance [Op Plan §9.3.3.]. Documentation of all inspections and repairs shall be kept on file at the facility.

b. Conveyances not performing adequately shall be repaired, and Maintenance of the surface water management system shall be in accordance with the procedures specified in the Operations Plan [Op. Plan, §9.0 et seq].

8. **Leachate Management.**

a. Leachate shall be managed in accordance with the requirements of Rules 62-701.400(6) and 62-701.500(8), F.A.C., the information in Section 8.0 et seq of the Operations Plan and other applicable Department rules.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

b. Leachate, which has accumulated in low areas within the disposal area shall be removed from the disposal area at least **daily** for off-site disposal or storage in the leachate storage tanks system. The Class I disposal area shall be operated to limit the leachate head to one foot above the liner.

c. 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.

d. 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 Wastewater Treatment Plant, 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 Wastewater Treatment Plant or in accordance with an alternate schedule approved by the Department.

e. Leachate Quantities.

1) Leachate generation reports shall be **compiled monthly** and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year.** Leachate generation reports shall include precipitation amounts, the number of open, intermediate and closed acres, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility. Leachate collection and leakage detection quantities shall be recorded separately. Rainfall data and leachate meter readings shall be recorded daily.

2) Quantities of leachate from each disposal cell (Cells 1-4) shall be recorded separately, upon initiation of waste disposal in each cell. Leachate quantities shall be measured and recorded in accordance with the procedures in the Sections 8.1 and 8.6 of the Operation Plan.

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

4) The leakage action rate (i.e. rate of leakage into the LDS) is 166/gal/acre/day [ref. SC#A.2.a., Egr Rpt, Attachment G.2.c(2)-1, Exhibit 5] In the event that the leachate management records indicate a substantially higher actual leakage rate, the Department shall be notified, and a plan for assessment and corrective action (including a schedule for implementation) shall be submitted to the Department for approval.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

f. Leachate Collection System Inspections/Maintenance.

1) A video inspection of the leachate collection system piping shall be conducted to document the LCS performance. A report summarizing the inspection (including videotape/DVD), which describes the method of cleaning and inspection, locations of all obstructions shown on a plan sheet, a plan for corrective actions (if necessary), and an evaluation of the effectiveness of the system shall be submitted to the Department. [Op Plan, 8.7]. This report shall also include an evaluation of the leachate quantities reported compared to leachate quantities estimated by HELP models previously submitted as part of the information listed in SC#A.2.a.

a) Inspection conducted no earlier than **April 15, 2013** - report submitted no later than **June 15, 2013**.

b) Inspection conducted no earlier than **August 15, 2015** - report submitted no later than **October 15, 2015** (i.e. with the permit renewal application required by Specific Condition #A.4.).

2) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in the Operation Plan [Op Plan, §8.7, §8.8].

3) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day,** or more frequently if needed, to ensure proper operation [Op Plan, §8.4.4.].

4) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

5) Upon the discovery of any defective (e.g. obstructed, separated, deformed, etc.) portion of the leachate collection system, the disposal of waste in the affected area shall cease in the affected area until the leachate collection system performance has been restored or until the permittee has demonstrated that the material performance has not been impaired. Construction of improvements to any part of the LCRS, including repairs to the leachate collection system, may require a permit modification pursuant to Specific Condition #A.3. The design and related supporting documents for construction improvements shall be substantially equivalent to those required for new construction.

g. Leachate Tank System Operation.

1) In the event of damage to any portion of the leachate storage tanks systems, the permittee shall **immediately (within 24 hours)** notify the Department of Environmental Protection explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

2) The leachate storage tanks shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C. The exterior of the leachate storage tanks and alarm systems shall be inspected at least **weekly** [Op Plan, §8.4.2.] for damage and leakage and the interior of the tanks shall be inspected whenever the tanks are drained or at least **once every three years**. A copy of the tank interior inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department. The tank containment area, truck loadout pump area, and other leachate tank system appurtenances shall be inspected at least **weekly** for leakage or other damage.[Op Plan §8.4.3.]

3) For normal operations when all tanks are in use, the leachate levels in either leachate storage tank shall be no higher than 0.5 feet below the high leachate level at the top of the tanks. [Op Plan §8.4.4.] In the event that the leachate level is above the high level for the tank, the owner or operator shall increase the quantity of leachate which is removed for off-site disposal each day in order to restore sufficient storage capacity and resume normal operations.

4) In the event of a substantial rainfall event, the maximum capacity of the tanks may temporarily be utilized. However, **within 1 week** of the substantial rainfall event, the operator shall ensure that sufficient storage capacity has been restored in the storage tanks system to resume normal operations.

5) Liquids which accumulate within the secondary containment area of the leachate storage tanks shall be removed within 24 hours of the rain event or when 10 percent of the storage capacity is reached; whichever occurs first. Disposal of this stormwater shall be in accordance with the requirements of Rule 62-701.400(9), F.A.C. Liquids which may have contacted waste or leachate shall be managed as leachate and shall not be discharged to the ground or surface water unless analytical results demonstrate that Department water quality standards and criteria will not be violated by the discharge.

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 Section 6.0 et seq of the Operations Plan; Rules 62-701.300(8) and 62-701.520, F.A.C.; and any other applicable Department rules, to protect the public safety, health and welfare.

1) 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.

2) The special wastes shall be stored in a location which does not interfere with the sequence of filling if stored within the lined landfill area. Other Special wastes and unacceptable wastes shall be stored in the Temporary Storage Area, Figure 3-1 in the Operations Plan.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

3) Roll-offs used to stored special wastes and unauthorized wastes shall be tarped at the end of each business day or in the event of rain. [Op Plan, Figure 3-1]

4) Unless otherwise indicated, the special wastes shall be removed from the facility for recycling and/or disposal **within 30 days of receipt or when the designated storage area/container is full, whichever occurs first**, unless another frequency for removal is approved in writing by the Department. Putrescible wastes shall be removed from the temporary Storage Area at least every 48 hours. [Op Plan §6.0]

b. Scrap metals. 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.

c. Household hazardous waste (HHW) management. Segregated HHW shall not be accepted at this facility for storage or disposal. Hazardous materials shall be removed from the site for proper disposal within 48 hours of discovery. [Op Plan §6.1, §5.8]

d. Paint. Liquid paint shall not be accepted at this facility for disposal. Liquid paint inadvertently received at the facility and removed from the waste shall not be bulked or air dried prior to disposal. Containers removed from the working face shall be placed in a dedicated covered container within the lined area of the landfill or in the Temporary Storage Area.

e. Lead Acid Batteries, Antifreeze, Used Oil, Used Oil Filters. [Op Plan §6.8] These materials received at the facility shall be removed from the waste stream and stored in a designated containment area located near the working face area in a manner which prevents the discharge of contaminants to the environment A maximum of one 55-gallon drum of used oil, one 55-gallon drum of used oil filters, one 55-gallon drum of antifreeze, and one pallet of lead acid batteries shall be stored at the facility at any one time. All drums shall be appropriately labeled.

f. Mercury Containing Devices. [Op Plan §6.13] Mercury containing devices (e.g. fluorescent lamps, mercury vapor lamps, metal halide lamps, high pressure sodium lamps, thermostats and thermometers, mercury switches and relays, etc.) received at the facility shall be removed from the waste stream and stored unbroken in a DOT approved shipping container for fluorescent bulbs or a smaller container for other smaller lamps or mercury-containing devices. However, mercury containing devices inadvertently received shall be managed as hazardous waste in accordance with Operations Plan §6.1.

g. White Goods and lawn mowers. [Op Plan §6.9] Lawn mowers which may contain gasoline or oil shall not be accepted at the facility for disposal. 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. A maximum of 40 c.y. of white goods and lawn mowers may be stored at the site at any time.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

h. Yard Waste/Land Clearing Debris. Except for yard trash that is received mixed with Class I wastes, yard waste is prohibited from disposal in the Class I landfill [Op Plan, §6.17].

i. Asbestos. Asbestos will not be accepted for disposal at this facility. However, asbestos that is inadvertently received at the facility shall be managed in accordance with the Operations Plan [Op Plan, §6.4].

j. Contaminated Soil. Contaminated soil accepted at the facility shall be characterized to demonstrate that it is non-hazardous, and shall be managed and disposed of in accordance with the Operations Plan. [Op Plan §6.5]

k. Waste Tires. The waste tires received at the facility shall be removed from the waste stream and stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.) in a designated open top roll-off container located near the working face area [Op Plan, §6.7]. A maximum of one 40 CY container of waste tires shall be stored at the facility at any one time.

10. **Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes [Op Plan, §5.1]. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters may be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted.

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., and the Operation Plan (§5.6) so as to protect the public health and welfare.

1) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

a) is adequately covered with a tarp or rain cell cover;
OR
b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, **AND**
c) has no evidence of leachate seepage, **AND**
d) has no evidence of erosion.

b. Alternate Initial Cover. Alternate initial cover materials shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary cover or tarpaulin.

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

d. Soil materials, which have been previously used for initial cover, shall not be re-used for intermediate cover. Soil materials, which have been previously used for intermediate that contain waste and are not clean soil exclusively, shall not be re-used for intermediate cover [Op Plan, §5.6]. These materials may be re-used as initial cover provided the runoff from these areas is managed as leachate.

e. Contaminated soils shall not be used for intermediate or final cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

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. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas:

1) that have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C.;
2) that have not been initially covered as described in Specific Condition #C.11.a., above;
3) that have exposed waste, or
4) where leachate seepage is observed.

c. Access to the working face shall be maintained in all weather conditions.

13. **Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Drawings (Sheets FC-1 through FC-5) [ref. SC#A.2.c.], and as described in Sections §5.3 through §5.5 of the Operation Plan, or as otherwise approved in writing by the Department. Waste shall be spread and compacted daily on normal operating days.

b. The initial waste layer in each cell shall consist of select waste that contains no large rigid objects that may damage the liner or leachate collection system [Op Plan, §5.3.1.]. Rigid objects removed from the initial waste layer shall be stored in a method and location that will not damage the liner system. All slopes shall be maintained no greater (steeper) than 3H:1V [Op Plan, §5.3].

c. The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity of, the Class I landfill and site life as required by Rule 62-701.500(13)(c), F.A.C. **Annually, no later than March 1st each year,** a copy of this survey and 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 (no steeper) than the design sideslopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved Drawings [ref. SC#2.c]. The capacity estimate shall include updated design life (time) calculations.

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. **Report submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Fl. 33637-0926.

2. **Operation Plan and Operating Record.**

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

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

3. **Waste Records.**

a. Waste records shall be maintained as required by Rule 62-701.500(4), F.A.C. The owner or operator of the facility shall weigh each load of waste as it is received (with scales at the adjacent Sumter County Solid Waste Management facility or other facility approved by the Department) 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 (attn: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Fl. 33637-0926, and Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400) **annually, by January 15th each year.** Waste shall not be accepted for disposal at the landfill unless weight scales are available and are in proper working condition.

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

1) A log of the facility operator's daily inspections, and any subsequent corrective actions;

2) Load checking records;

3) A log of the facility operator's weekly inspections, and any subsequent corrective actions;

4) A list of incidents of disposal of unauthorized wastes. This list should include (if known) the generator's name and address, and a description of the waste disposed;

5) Operator and spotter training certificates and other documentation;

6) Log of odor complaints and corrective action; and

SPECIFIC CONDITIONS: PART D - Recordkeeping

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

7) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.

8) Documentation of incidents reported pursuant to Specific Condition C.6.;

9) Water quality and gas monitoring reports.

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 **annually, by March 1st each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Fl. 33637-0926.

b. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS#4565, Tallahassee, Florida 32399-2400.

c. Proof of the initial funding of the financial assurance mechanism shall be submitted **no later than 60 days prior to** receipt of waste in each cell of the Class I landfill.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. **Water Quality Monitoring Quality Assurance.**

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

b. The field testing, sample collection and preservation and laboratory testing, including the collection of quality control samples, shall be in accordance with methods approved by the Department as indicated in 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 the ACMS Class I landfill [Cells 1-4, 58.8-acre footprint] shall extend horizontally 100 feet from the limits of the landfill liner [all active, inactive and closed waste disposal areas] or to the property boundary, whichever is less, and shall extend vertically to the first semi-confining unit within the upper Floridan aquifer.

b. The permittee shall ensure that the water quality standards for Class G-II ground water referenced in Rule 62-520.420(1), F.A.C., and the ground water minimum criteria referenced in Rule 62-520.400(1), F.A.C., will not be exceeded at the boundary of the zone of discharge. However, as indicated in Rule 62-701.320(17), F.A.C., exceedances of ground water criteria within a permitted zone of discharge shall continue to require evaluation monitoring and prevention measures in accordance with Rule 62-701.510(7), F.A.C.

3. **Ground Water Monitor Well Locations**. The proposed ground water monitoring system for the ACMS Class I landfill [Cells 1-4, 58.8-acre footprint] is designed and shall be constructed in accordance with Section L of the Engineering Report ["Water Quality and Leachate Monitoring Requirements," prepared by JEA], dated July 2, 2010, revised September 14, 2010 and October 15, 2010 [ref. SC#A.2.a.(2)]. The proposed monitor wells are located on Figure L.1.c., entitled "Ground Water Monitoring Well and Leachate Sampling Locations," prepared by JEA, received September 16, 2010 **[attached]**. Existing piezometers are located on Figure 26 entitled "Piezometer Location Plan," prepared by Andreyev Engineering, Inc., received July 7, 2010 **[attached]**.

Proposed monitor wells MW-1A, MW-2A, MW-3A/3B, MW-4A/4B, MW-5A, MW-6A/6B, MW-7A/7B, and MW-8A, shall be constructed in accordance with the details provided in Table L.1.c.(3) entitled "Ground Water Monitoring Well Locations and Construction Information" [revised August 12, 2010, received September 16, 2010], and as described in Section L.1.c.(6) of the Engineering Report prepared by JEA [ref. SC#A.2.a.(2)].

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.3., continued)

Well #	Scheduling Notes	WACS Testsite #	Aquifer	Designation	Location
P-1A	A, Y	N/A	Floridan [1]	Piezometer	Figure 26
P-3A	A, Y	N/A	Floridan [1]	Piezometer	⇩
P-3B	A, Y	N/A	Floridan [2]	Piezometer	⇩
P-4A	A, Y	N/A	Floridan [1]	Piezometer	⇩
P-4B	A, Y	N/A	Floridan [2]	Piezometer	⇩
P-5A	A, Y	N/A	Floridan [1]	Piezometer	⇩
P-6A	A, Y	N/A	Floridan [1]	Piezometer	⇩
P-6B	A, Y	N/A	Floridan [2]	Piezometer	⇩
P-8A	A, Y	N/A	Floridan [1]	Piezometer	⇩
P-8B	A, Y	N/A	Floridan [2]	Piezometer	⇩
P-9A	A, Y	N/A	Floridan [1]	Piezometer	⇩
P-9B	A, Y	N/A	Floridan [2]	Piezometer	⇩
P-10A	A, Y	N/A	Floridan [1]	Piezometer	⇩
SP-1	A, Y	N/A	Floridan [1]	Piezometer	⇩
SP-2	A, Y	N/A	Floridan [1]	Piezometer	⇩
SP-3	A, Y	N/A	Floridan [1]	Piezometer	⇩
SP-4	A, Y	N/A	Floridan [1]	Piezometer	⇩
SP-5	A, Y	N/A	Floridan [1]	Piezometer	⇩
MW-1A	B, Z	27430	Floridan [1]	Background	Figure E.1.c.
MW-2A	B, Z	27431	Floridan [1]	Background	⇩
MW-3A	B, Z	27432	Floridan [1]	Detection	⇩
MW-3B	B, Z	27433	Floridan [2]	Detection	⇩
MW-4A	B, Z	27434	Floridan [1]	Detection	⇩
MW-4B	B, Z	27435	Floridan [2]	Detection	⇩
MW-5A	B, Z	27436	Floridan [1]	Detection	⇩
MW-6A	B, Z	27437	Floridan [1]	Detection	⇩
MW-6B	B, Z	27438	Floridan [2]	Detection	⇩
MW-7A	B, Z	27439	Floridan [1]	Detection	⇩
MW-7B	B, Z	27440	Floridan [2]	Detection	⇩
MW-8A	B, Z	27441	Floridan [1]	Detection	⇩
P-2A	A	27442	Floridan [1]	Piezometer	⇩
P-7A	A	27443	Floridan [1]	Piezometer	⇩

Notes:

A = existing piezometer; construction details previously submitted.

B = proposed monitor well to be installed **at least 30 days prior to the initiation of debris disposal in Cells 1 and 2**.

Y = to be abandoned **at least 15 days prior to the initiation of activities associated with the construction of Cells 1 and 2;** documentation of abandonment in accordance with Specific Condition #E.6., shall be submitted as part of the certification of construction completion prepared for Cells 1 and 2.

Z = documentation of well construction shall be prepared in accordance with Specific Conditions #E.5.b., and #E.5.d.; a ground water "initial sampling event" shall be conducted **within 7 days of well installation and development** for the parameters listed in Specific Condition #E.4.b.; well construction details and results of ground water "initial sampling events" shall be submitted as part of the certification of construction completion prepared for Cells 1 and 2.

[1] = screen interval completed in the "dune sands" or "marine sands" strata overlying the Ocala Limestone sediments; considered to be part of the Floridan aquifer within the ACMS Class I landfill site boundaries.

[2] = screen interval completed in the uppermost portion of the Ocala Limestone sediments.

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 lock all monitor wells to minimize the potential for unauthorized access.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

4. **Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Rule 62-520.420(1), F.A.C., and with the ground water minimum criteria referenced in Rule 62-520.400(1), F.A.C. Compliance with ground water standards shall be based on the analysis of unfiltered samples.

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

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

Field Parameters	Laboratory Parameters	
Static water levels before purging	Total ammonia - N	Iron
Specific conductivity	Chlorides	Mercury
pH	Nitrate	Sodium
Dissolved oxygen	Total dissolved solids (TDS)	
Temperature	Those parameters listed in 40 CFR Part 258, Appendix II	
Turbidity		
Colors & sheens (by obs.)		

The "initial sampling event" at the locations with paired Floridan aquifer wells [MW-3A/3B, MW-4A/4B, MW-6A/6B, MW-7A/7B] shall be conducted at the shallow well of each pair [the "A-series" well] unless insufficient water is present to allow the collection of a representative ground water sample. In this case, the "initial sampling event" shall be conducted at the adjacent "B-series" well.

c. Routine sampling events shall be conducted **semi-annually** [during the periods from Jan. 1-June 30, and July 1-Dec. 31] at the background wells and detection wells listed in Specific Condition #E.3., for analysis of the following parameters:

Field parameters	Laboratory parameters	
Static water levels before purging	Total ammonia - N	Iron
Specific conductivity	Chlorides	Mercury
pH	Nitrate	Sodium
Dissolved oxygen	Total dissolved solids (TDS)	
Temperature	Those parameters listed in 40 CFR Part 258, Appendix I	
Turbidity		
Colors & sheens (by obs.)		

The "routine sampling events" at the locations with paired Floridan aquifer wells [MW-3A/3B, MW-4A/4B, MW-6A/6B, MW-7A/7B] shall be conducted at the shallow well of each pair [the "A-series" well] unless insufficient water is present to allow the collection of a representative ground water sample. In this case, the "routine sampling event" shall be conducted at the adjacent "B-series" well.

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 and piezometers the permittee shall request and receive Department approval of a minor permit modification [excluding proposed wells MW-1A, MW-2A, MW-3A/3B, MW-4A/4B, MW-5A, MW-6A/6B, MW-7A/7B, and MW-8A for which construction details have been approved] in accordance with Specific Condition #A.3.a.

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), Monitoring Well Completion Report **[attached]**.

c. **Within one week of well completion and development**, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of Rule 62-701.510(6)(b)2, F.A.C.

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

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be abandoned in accordance with Rule 62-532.500(5), F.A.C., and Section L.1.c.(7) of the Engineering Report prepared by JEA [ref. SC#A.2.a.(2)] by filling from bottom to top with grout. Documentation of abandonment shall include a map showing well/piezometer locations and copies of the Well Construction Permits issued by the Southwest Florida Water Management District for well abandonment. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, the permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis to be representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring as described in 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 actions as described in Rule 62-701.510(7)(c), F.A.C.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

8. **Surface Water Sampling.** All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries of the site which do not discharge from the site to surface waters [Rule 62-701.510(4), F.A.C.]. It is not anticipated that the stormwater management system for the ACMS Class I landfill [Cells 1-4, 58.8-acre footprint] will discharge from the property. However, in the event that surface water discharge occurs from the stormwater management system, representative samples of each discharge event shall be collected for analysis of the parameters listed in Specific Condition #E.8.b. In the event that any modifications to the stormwater management system associated with future uses of the facility result in periodic surface water discharges from the property, the Department may require the implementation of routine surface water monitoring.

a. 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 criteria. Compliance with surface water criteria will be based on analysis of unfiltered samples.

b. Surface water samples shall be conducted **per discharge event** from the stormwater management system in accordance with the Department's SOPs to comply with the requirements of Rule 62-701.510(4), F.A.C. [Discharges from detention ponds for stormwater shall be sampled at the point of discharge to waters of the state or from the property, whichever is closer to the detention pond]. The Solid Waste Section of the Department's Southwest District office shall be notified of the occurrence of each discharge event **within 24 hours of discovery.** Surface water samples shall be analyzed for the following parameters:

Field parameters	Laboratory parameters	
Specific conductivity	Unionized ammonia	Total organic carbon (TOC)
pH	Total hardness	Total nitrogen
Dissolved oxygen	(as mg/L $CaCO_3$)	Chemical oxygen demand (COD)
Turbidity	Total phosphorus	Fecal Coliform
Temperature	(as mg/L P)	Biochemical oxygen demand (BOD_5)
Colors and sheens	Iron	Total dissolved solids (TDS)
(by obs.)	Mercury	Total suspended solids (TSS)
	Nitrate	Chlorophyll A
	Parameters listed in 40 CFR Part 258, Appendix I	

9. **Leachate Sampling.** Individual grab samples of leachate (unfiltered) shall be collected from each of the leachate pump stations from Cells 1 through 4 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. Representative leachate samples shall be collected from the sampling ports [3/4-inch stainless steel labcock valves] installed on the leachate collection riser pipes as depicted on Section A of Drawing #M-4 [entitled "Pump Station Mechanical Sections"], of the Plan Sheets prepared by JEA, received September 16, 2010 [ref. SC#A.2.c.]. The leachate sampling locations are shown on Figure L.1.c., entitled "Ground Water Monitoring Well and Leachate Sampling Locations," prepared by JEA, received September 16, 2010 **[attached],** as follow:

Leachate Sampling Location #	WACS Testsite #	Location
LS-1 [Pump Station #1, Cell 1]	27444	Figure L.1.c.
LS-2 [Pump Station #2, Cell 2]	27445	⇩
LS-3 [Pump Station #3, Cell 3]	27446	⇩
LS-4 [Pump Station #4, Cell 4]	27447	⇩

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.9., continued)

b. **Annual** leachate sampling [for the periods from Jan. 1-Dec. 31] shall be conducted at each of the leachate pump stations following initiation of waste disposal in the landfill cells for analysis of the following parameters:

Field parameters	**Laboratory parameters**	
Specific conductivity	Total ammonia - N	Iron
pH	Nitrate	Mercury
Dissolved oxygen	Chlorides	Sodium
Turbidity	Total alkalinity (as mg/L $CaCO_3$)	
Temperature	Total dissolved solids (TDS)	
Colors & sheens (by obs.)	Biochemical oxygen demand (BOD_5)	
	Chemical oxygen demand (COD)	
	Those parameters listed in 40 CFR Part 258, **Appendix II**	

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. [at landfill cells that have received waste], 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 ground water, surface water, and leachate sampling event conducted at the ACMS Class I Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable [EDD] reports that provide:

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

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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

The report of results shall be submitted to:

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

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 30 days from completion of laboratory analyses**;

2. Specific Condition #E.4.c. - results of ground 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;

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.b. - results of surface water "discharge sampling events" shall be submitted **within 60 days from completion of laboratory analyses**;

5. Specific Condition #E.9.b. - results of leachate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th of each year**; and,

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

11. **Monitoring Plan Evaluation. By June 15, 2013 and October 15, 2015**, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

Water Quality Monitoring Data Evaluation Due Date	Starting Sampling Event	Ending Sampling Event
June 15, 2013	Initial event	Second half 2012
October 15, 2015	First half 2013	First half 2015

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

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

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

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

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

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

2. **Gas Monitoring and Control.**

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

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

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

Measured During		Report Submitted By
Quarter 1	(Jan. 1-Mar. 31)	April 15th of each year
Quarter 2	(Apr. 1-June 30)	July 15th of each year
Quarter 3	(July 1-Sep. 30)	October 15th of each year
Quarter 4	(Oct. 1-Dec. 31)	January 15th of each year

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

3. **Gas Monitoring Locations.** Landfill gas monitoring shall be conducted in accordance with Section 10.0 ["Landfill Gas Management"] of the Operations Plan, prepared by JEA, dated July 2010, revised September 2010 [ref. SC#A.2.a.(1)] and as required by Rule 62-701.530, F.A.C. The landfill gas probes shown on Figure L.1.c., entitled "Ground Water Monitoring Well and Leachate Sampling Locations," prepared by JEA, received September 16, 2010 **[attached]**, and the enclosed structures 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.

Landfill Gas Probe #	Location Description
GW-1	Adjacent to Leachate Storage Tank/Truck Loading Area
GW-2	East of Cell 4
GW-3	East of Cells 2 and 3
GW-4	East of Cell 1, adjacent to Facility Entrance Gate
GW-5	North of Cell 1
GW-6	North of Cell 1
GW-7	North of Cell 1
GW-8	North of Cell 1
GW-9	Northwest of Cell 1
GW-10	West of Cell 1
GW-11	West of Cell 3
GW-12	West of Cell 4
GW-14	Southwest of Cell 4
GW-14	South of Cell 4
GW-15	South of Cell 4

Proposed landfill gas probes for the ACMS Class I landfill [Cells 1-4, 58.8-acre footprint] identified as #GW-1 through #GW-15 shall be constructed in accordance with the details described in Section 10.1 ["Description of the Landfill Gas Management System"] of the Operations Plan prepared by JEA, dated July 2010, revised September 2010 [ref. SC#A.2.a.(1)], and as shown on Detail 1 of Drawing #M-10 [entitled "Mechanical Details"] of the Plan Sheets prepared by JEA, received September 16, 2010 [ref. SC#A.2.c.]. Proposed landfill gas probes #GW-1 through #GW-15 shall be installed at least 30 days prior to initiation of debris disposal in Cells 1 and 2. Gas probe construction details shall be submitted as part of the certification of construction completion prepared for Cells 1 and 2.

Ambient Monitoring Location	Location Description
Scale House	Off-site building on Sumter County parcel

Ambient landfill gas monitoring shall be conducted along baseboards, at cracks in or penetrations of concrete slab or flooring, at ground-level cabinets, and at electrical outlets and panels, as appropriate, within the scale house.

Gas probes #GW-1 through #GW-15 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 Requirements.**

a. Long-Term Care Requirements.

1) The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the Long Term Care Plan [SC#A.2.a(3)].

2) 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.

b. Closing Requirements.

1) **No later than ninety (90) days** prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.

2. **Use of Closed Landfill Areas.**

a. There are currently no closed portions of the ACMS Class I Landfill.

b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rules 62-701.610(7) and (8), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill drainage systems; leachate collection, removal and storage systems; bottom liner system; final cover system (soil and vegetation); water quality monitoring systems; gas management and monitoring systems; and stormwater controls. **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, and may require a permit modification or separate permit.

3. **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.

Executed in Hillsborough County, Florida.

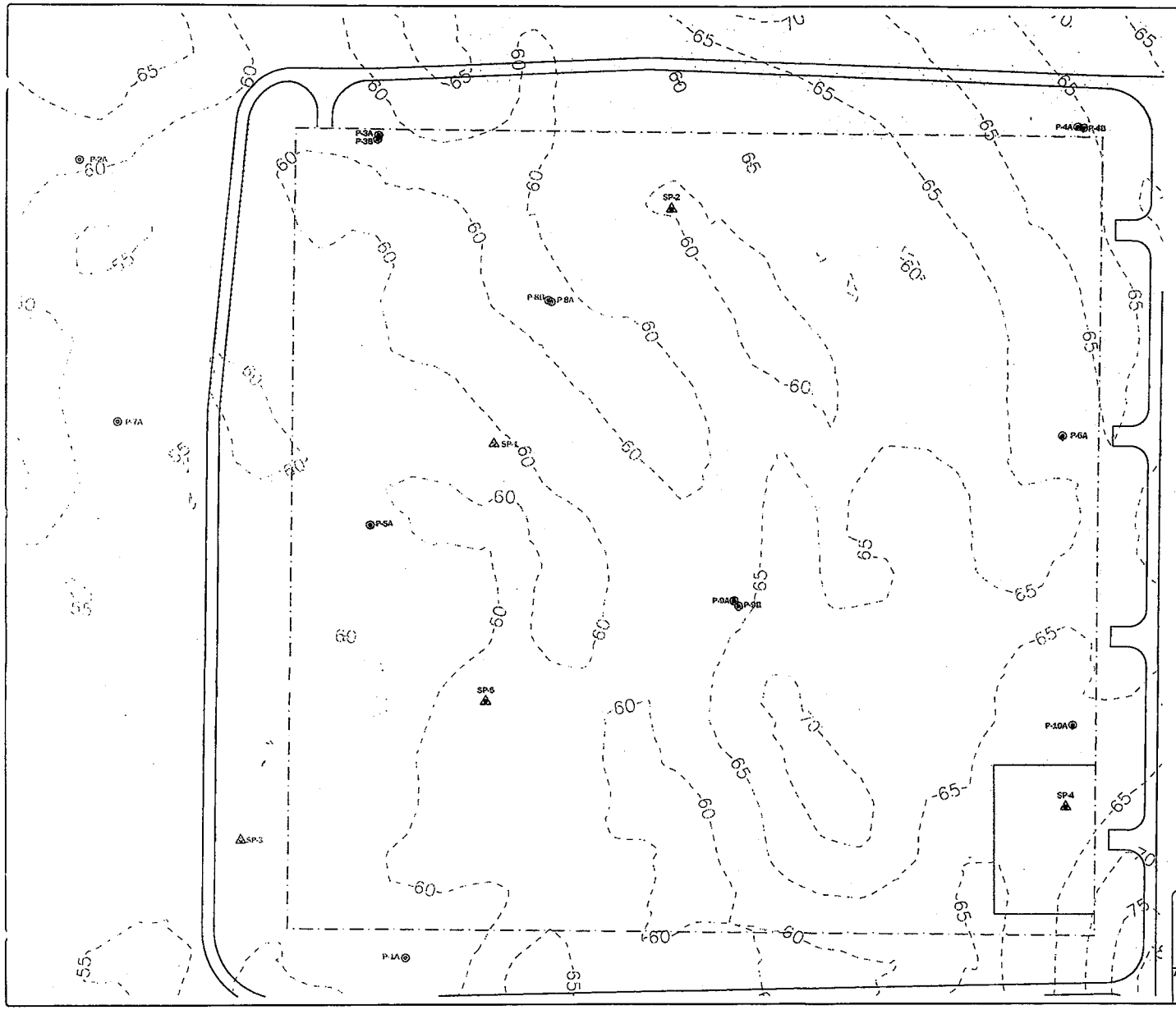
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Gary S. Colecchio
District Director
Southwest District

ATTACHMENT 1		
Specific Condition	**Submittal Due Date**	**Required Item**
A.4.	On or before June 15, 2015 No later than October 15, 2015	Notification of date of permit renewal application submittal Submit application for permit renewal
A.9.a.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, failure of landfill systems or equipment, etc. Written notification & corrective action plan
C.6.c.	Within 60 days of notification	Corrective actions completed for dry or damaged wells
C.6.d.	Within 30 days of notification	Corrective actions implemented for stormwater and/or leachate management system
C.8.e(1)	Quarterly, by January 15th, April 15th, July 15th, and October 15th of each year	Submit leachate quantity reports
C.8.f(1)	On or before June 15, 2015 No later than October 15, 2015	Submit leachate collection cleaning videotape/report, evaluation of LCS performance
C.8.g(2)	Every 3 years Within 30 days of inspection	Inspect interior of leachate tanks Submit report
C.13.c.	Annually, by March 1st each year	Submit annual topographic survey & capacity estimates
D.3.a.	Annually, by January 15th of each year	Submit waste quantity reports
D.4.a. D.4.b. D.4.c.	Annually, by March 1st each year Annually No later than 60 days prior to receipt of waste	Submit revised cost estimates Submit proof of funding Submit proof of initial funding

ATTACHMENT 1		
Specific Condition	**Submittal Due Date**	**Required Item**
E.4.b.	Within 7 days of new or replacement well installation/development	Conduct ground water initial sampling event
E.4.c.	Semi-annually	Conduct ground water routine sampling event
E.5.a.	Prior to installation of new or replacement wells	Request and receive permit modification
E.5.b.	Within 90 days of installation of new wells	Provide monitor well construction details
E.5.c.	Within 1 week of well installation/development	Conduct ground water initial sampling event
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 well abandonment
E.7.	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality, or exceeding ground water standards or minimum criteria
E.8.b.	Per discharge event from the stormwater retention pond	Conduct surface water sampling event
E.9.b.	Annually	Conduct routine leachate sampling
E.9.c.	Monthly	Conduct supplemental leachate sampling
E.10.b.	Within 60 days from completion of laboratory analyses	Submit results of: - ground water verification sampling events - surface water discharge sampling events
E.10.b.	Within 30 days from completion of laboratory analyses	Submit results of: - ground water initial sampling events - leachate supplemental sampling events
E.10.b.	Semi-annually, by January 15th and July 15th of each year	Submit results of: - ground water routine sampling events
E.10.b.	Annually, by January 15th of each year	Submit results of: - leachate routine sampling events

ATTACHMENT 1		
Specific Condition	**Submittal Due Date**	**Required Item**
E.11.	June 15, 2013 and October 15, 2015	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15th, April 15th, July 15th, and October 15th of each year	Submit results of routine landfill gas monitoring events



LEGEND:

- PROPOSED CLASS 1 LANDFILL 1600' X 1600' FOOTPRINT
- LOCATION OF PREVIOUSLY INSTALLED PIEZOMETER (P-1A, P-2A, P-7A, P-8A/8B)
- LOCATION OF NEW PIEZOMETER FOR CLASS 1 LANDFILL (P-3A/3B, P-4A/4B, P-5A, P-6A, P-9A/9B & P-10A)
- LOCATION OF PREVIOUSLY INSTALLED SHALLOW PIEZOMETER (SP-1 & SP-3)
- LOCATION OF NEW SHALLOW PIEZOMETER FOR CLASS 1 LANDFILL (SP-2, SP-4, & SP-5)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUL 07 2010
SOUTHWEST DISTRICT TAMPA

0 50 100 200 400
SCALE IN FEET

Andreyev Engineering, Inc.

APPROXIMATE SCALE: 1"=200'
DATE: 06/14/10
PN: CPGT-10-0020
ENGINEER: SC
DRAWN BY: DLS

GEOTECHNICAL INVESTIGATION
ACMS INC.
CLASS 1 LANDFILL
SUMTERVILLE, SUMTER COUNTY, FL.
PIEZOMETER LOCATION PLAN
LANDFILL FOOTPRINT
FIGURE 26

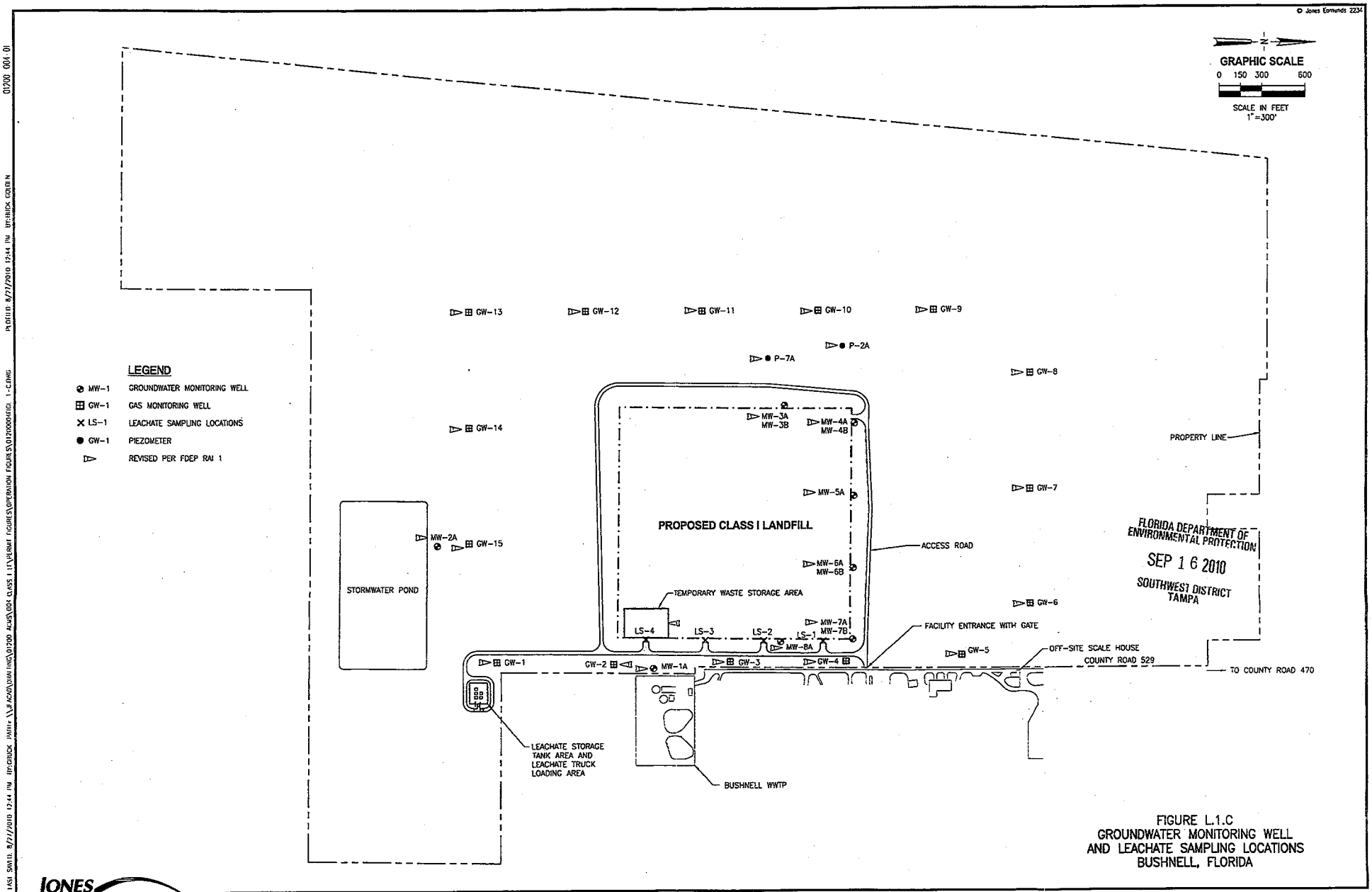


FIGURE L.1.C
GROUNDWATER MONITORING WELL
AND LEACHATE SAMPLING LOCATIONS
BUSHNELL, FLORIDA

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.