



# Florida Department of Environmental Protection

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## PERMITTEE

Pasco County Board of  
County Commissioners  
7530 Little Road  
New Port Richey, Florida 34654  
c/o Mr. John Power, SW Manager

## PERMIT/CERTIFICATION

WACS Facility ID No: SWD/51/45920  
Permit No: **26254-001-SO/T3**  
Date of Issue: **11/7/2008**  
Expiration Date: **11/7/2013**  
County: Pasco  
Lat/Long: 28°22'22"N  
82°34'06"W  
Sec/Town/Rge: 25S26/24S/17E  
Project: West Pasco Class III Landfill

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

To operate, monitor, and maintain a Class III landfill (approximately 14.0 acres), referred to as the West Pasco Class III Landfill, and related ancillary facilities, subject to the specific and general conditions attached, located at 14230 Rays Road, Spring Hill, Pasco County, Florida. The specific conditions attached are for the operation of a:

1. Class III Landfill
2. Leachate holding tanks system
3. Household Hazardous Waste Collection and Recycling Center (HHWC)

Replaces Permit No.: 26255-001-SO

## General Information

Disposal acres	Approx. 14 acres (Cells 1-4 - 3.5 acres each)
Lowest bottom elevation of Cells 1-4 (south end of Cell 1)	+45.0 ft. NGVD [ref. SC#A.2.b, Sheet C-6]
Top elevation at final buildout	Max. +79.26 ft. NGVD [ref. SC#A.2.a(3), Sheet I2]
Side slopes max.	4H:1V [ref. SC#A.2.a(3), Sheet I2]
Liner system (bottom to top)	In-situ subgrade, 60 mil HDPE geomembrane, 2-foot drainage sand [ref. SC#A.2.b, Sheet C-10, Detail D]
LCS drainage system	Two 8-inch PE perforated LCS piping per cell, draining north to south within 2-foot drainage/protective sand layer [ref. SC#A.2.b, Sheet C-10, Detail D]  Cell 1 & 2 perforated LCS pipes drain to non-perforated 10-inch header pipe and leachate manhole for each cell. Cell 1 & 2 manholes drain to Leachate Tank No. 1. Cells 3 & 4 drain similarly to Leachate No. 2. Leachate from Tanks 1 & 2 drains to Shady Hills WWT [ref. SC#A.2.b, Sheet C-6 and SC#A.2.a(1), Figure No. 4]
Design life	45-55 years
Leachate storage tanks	Two below ground concrete leachate holding tanks, no secondary containment; nominal diameter = 10 ft diameter, approx. 11-12 ft deep. [ref. SC#A.2.b, Sheet C-8, Detail A]

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

**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

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

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

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

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

**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

13. This permit also constitutes:

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

14. The permittee shall comply with the following:

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

GENERAL CONDITIONS:

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

(c) Records of monitoring information shall include:

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

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



**SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements**

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

2. **Permit Application Documentation.** This permit is valid for operation of Cells 1-4 of the Class III landfill, the leachate holding tank system, and related ancillary facilities, in accordance with all applicable requirements of Department rules, the conditions of this permit, and in accordance with the reports, plans and information submitted by CDM, unless otherwise noted, as follows:

a. Operation Permit Renewal Application for West Pasco Class III Landfill, (one 3-ring binder & one spiral bound document) dated and received February 2, 2007, prepared by CDM, as revised, replaced or amended (information inserted into originals), dated and received April 19, 2007, dated October 5, 2007 (received October 8, 2007), dated and received December 28, 2007, dated March 20, 2008 (received March 21, 2008), dated and received June 25, 2008, and dated and received August 11, 2008. This information includes, but is not limited to:

- 1) Operations Plan, dated June 2008 [Section 3, Attachment 1];
- 2) Groundwater Monitoring Plan, March 20, 2008 (revised August 11, 2008) [spiral bound document]; and
- 3) Plan Sheet titled, Sheet #12 "Final Closeout Cross Sections" signed and sealed January 21, 1988, revised and received June 25, 2008.

b. Plan Set titled, West Pasco County Class III Landfill Construction Drawings (Record Drawings May 10, 1991) (14 sheets), received July 7, 1995.

3. **Permit Modifications.**

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

4. **Permit Renewal.** No later than May 1, 2013, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10), F.A.C. Operation permit renewal shall include, but not be limited to, an updated operations plan, water quality monitoring plan, site plans for sequence of filling with cross-sections of lifts, and revised (not inflation-adjusted) financial assurance cost estimates.

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

**SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements**

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

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

8. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.

9. **Prohibitions.**

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

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

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

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

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

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

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

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

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

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

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

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

**1. Facility Operation Requirements.**

a. The permittee shall operate this facility in accordance with Rule 62-701.500, F.A.C., the Sequence of Fill Drawing [ref. Op. Plan, Figure No. 2], Operations Plan [ref. SC#A.2.a(1)], and any other applicable requirements.

1) Operation of the Waste Tire Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126935-002-WT/02 (including modifications, if any), or its successors.

2) Operation of the Yard Trash Processing Facility shall be in accordance with Chapter 62-709.320, F.A.C., and Yard Trash Processing Facility Registration No. 051-01-YT, or its successors.

3) The Household Hazardous Waste Collection/Storage Facility (HHWCC) shall be operated in accordance with the HHWCC Operating Plan and Contingency Plan, submitted by Pasco County on May 22, 1995.

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

**d. Site Inspections.**

1) The owner or operator shall inspect the site for erosion and settlement (low spots and improperly graded areas) **weekly** (twice per week during the wet seasons). Erosion and settlement shall be repaired in accordance with Specific Condition #C.6.

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

3) The owner or operator shall inspect the area of the facility outside the working face area of the facility for litter **daily**. [ref. Op. Plan, Sec. 7]. 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**.

e. 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.



**SPECIFIC CONDITIONS: PART C - Operation Requirements**

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

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

g. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition C.6.b. below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. 11.c.]. Trenches cut into the waste shall not be used to extinguish fires without prior Department approval.

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

**2. Operating Personnel.**

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

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

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

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

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

3. **Control of Access.** Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C. [ref. Op. Plan, Sec. 5]. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal.
4. **Monitoring of Waste.**
  - a. Wastes shall be monitored as required by Rule 62-701.500(6), F.A.C., including a load checking program and associated activities. The owner or operator shall conduct three random load checks per week at the active working face [ref. Op. Plan, Sec. 6]. Documentation of the three random load checks, including descriptions (type and quantity) of unacceptable wastes discovered, shall be maintained on-site, and copies provided to the Department upon request [ref. SC#D.3.b(3)].
  - b. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous wastes are wastes listed in 40 CFR 261 Subpart D as hazardous or are wastes characterized in 40 CFR 261 Subpart C as hazardous. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with Rules 62-701.300(4) and 62-701.500(6)(b), F.A.C. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #C.6.b. and the waste shall be managed in accordance with the procedures provided in Section 2.c. and Section 6 of the Operations Plan.
5. **Control of Nuisance Conditions.**
  - a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the operation to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.
  - b. In the event that the odor control measures performed at the facility, do not sufficiently abate objectionable odors offsite, **within sixty (60) days** of initial detection, the owner or operator shall submit an odor abatement plan to the Department for approval. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation.
6. **Facility Maintenance and Repair.**
  - a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, leachate holding tanks, cover systems and berms, gas monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

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

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

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

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

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below:

1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or

2) **By the end of the next working day** if waste or liner is exposed.

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

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

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



**SPECIFIC CONDITIONS: PART C - Operation Requirements**

**7. Stormwater System Management.**

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

**8. Leachate Management.**

a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section 2.j and Section 8 of the Operations Plan, and other applicable Department rules.

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

**c. Leachate Disposal.**

1) Leachate shall be pumped offsite for disposal at an appropriately permitted wastewater treatment facility (WWTP). No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

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

**d. Leachate Quantities.**

1) Leachate quantities shall be measured and recorded in accordance with the procedures specified in Section 8 of the Operations Plan.

2) A rain gauge located on-site shall be used to compare precipitation with leachate generation. Rainfall data, in excess of one-tenth of an inch, shall be recorded by landfill personnel on a daily basis [ref. Op. Plan, Sec. 8].

3) Leachate generation reports shall be compiled monthly and submitted to the Department quarterly or more frequently if requested, by **January 15th, April 15th, July 15th and October 15th** each year. Leachate generation reports shall include precipitation amounts greater than one tenth of an inch, the number of open, intermediate and closed acres, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.



**SPECIFIC CONDITIONS: PART C - Operation Requirements**

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

e. Leachate Collection System Inspections/Maintenance.

1) Each manhole and leachate holding tank and related sensors and controller mechanisms shall be inspected on a monthly basis [ref. Op. Plan, Sec. 8]. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance.

2) **No later than February 1, 2013**, the entire leachate collection and removal system shall be water pressure cleaned and/or video inspected to verify adequate performance. Components not performing adequately shall be cleaned and/or repaired. The inspection report shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan) and cause of obstructions encountered, proposed corrective actions as appropriate. The results of the inspection and cleaning shall be submitted to the Solid Waste Section of the Southwest District Office **no later than May 1, 2013** to demonstrate adequate performance.

f. Leachate Storage Tanks.

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

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 2.c. and Section 6 of the Operations Plan; Rules 62-701.300(8) and 62-701.520, F.A.C.; and any other applicable Department rules, to protect the public safety, health and welfare. The special wastes shall be stored and managed such that discharge of contaminants to the environment is prevented. The special wastes shall be handled on a first-in, first-out basis. The special wastes shall be stored in a location which does not interfere with the sequence of filling.

b. Scrap metal. Scrap metal separated from the waste stream for recycling shall be stored within the designated metals storage area shown on Figure 1 of the Operations Plan and managed as described in the Operations Plan [ref. Op. Plan, Sec. 2.c.]. 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. White Goods. White goods shall be rejected and reloaded or kept undamaged and placed upright adjacent to the designated metals storage area shown on Figure 1 of the Operations Plan. 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 and may be stored in the scrap metal storage area.

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

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

d. Waste Tires. Tires inadvertently accepted at the facility and subsequently removed from waste stream shall be managed at the on-site waste tire processing facility in accordance with Chapters 62-701 and 62-711, F.A.C., and Waste Tire Collection Center Permit No. 126935-002-WT/02 (including modifications, if any), or its successors.

e. Other Special Wastes. Small items of special wastes (e.g. used oil, lead acid batteries, mercury-containing devices, etc) removed from the waste stream shall be sent to the HHWCC and managed in the designated areas for these wastes in accordance with the HHWCC Operating Plan and Contingency Plan [ref. SC #C.1.a.(3)].

f. Contaminated soil, excavated waste. Neither soils that are reasonably believed to be contaminated nor wastes excavated from the redevelopment of former disposal sites/areas, shall be disposed at this site. In order to ensure that these materials are not inadvertently received at the site, for all loads with large quantities of soil, **prior to the acceptance of the load**, the permittee shall request the following information for each load: name, address and phone number of generator (i.e., jobsite where material is generated), a certification from the generator that the material is not known to be contaminated and/or did not originate from a former waste disposal area.

g. Shredded/Processed Waste. Wastes that are not clearly identifiable by visual observation as Class III waste are prohibited from being accepted at this facility. Waste that has originated from excavation or redevelopment of old landfills or unpermitted dumps is considered Class I waste and is not authorized to be managed at this facility.

**10. Waste Handling Requirements.**

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

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

c. Unauthorized wastes shall be removed from the waste and stored in a 40 CY roll-off containers located immediately adjacent to (within 200 feet) the active face. The unacceptable waste container shall be removed for disposal within at the end of each working day or when full, whichever occurs first. [ref. Op. Plan, Secs. 2.c.].

d. Containers which store unauthorized wastes shall be covered/tarped at the end of each business day, when full, and in the event of inclement weather.

e. Unauthorized wastes shall be removed from the incoming loads immediately, and no other loads shall be dumped in the immediate vicinity until unauthorized materials have been removed and stored in the container provided for unacceptable wastes.



**SPECIFIC CONDITIONS: PART C - Operation Requirements**

11. **Waste Covering Requirements.** All solid waste disposed of in the Class III 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 Class III landfill in accordance with Rule 62-701.500(7)(e), F.A.C., so as to protect the public health and welfare.

1) All solid waste disposed of in the Class III disposal area must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department (in writing), at the end of each working week [ref. Op. Plan, Sec. 7].

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

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

12. **Working Face.**

a. The permittee shall maintain a working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously that can be adequately spotted by the number of trained spotters at the facility. [ref. Op. Plan, Sec. 7].

b. Interceptor berms shall be maintained around the working area to prevent leachate runoff from the working face from entering the stormwater management system and to minimize the formation of leachate [ref. Op. Plan, Sec. 7].

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

a. The method and sequence of filling shall be in accordance with the Sequence of Fill Drawing [ref. Op. Plan, Figure No. 2], and as described in the Operations Plan [ref. Op. Plan, Secs. 2.f, 2.g. & 7], or as otherwise approved in writing by the Department.

b. Waste shall be spread in 2 feet thick layers and compacted before applying the next layer of waste and in accordance with the method, procedures, and sequence described in the facility Operations Plan [ref. Op. Plan, Sec. 2.g.]. Cells shall be filled in approximate 10 foot lifts. Slopes shall be maintained in accordance with the Permit Drawings. The working face shall be no greater (steeper) than **3H:1V** [ref. Op. Plan, Secs. 2.g. & 7].

c. The permittee shall maintain and clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The permittee shall maintain a minimum disposal setback of 5 feet from the inside top edge of the bottom liner system.

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

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

d. Initial Waste Placement.

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

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

e. The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity and site life of each disposal area as required by Rule 62-701.500(13)(c), F.A.C. **Annually, no later than April 15<sup>th</sup> each year**, a copy of this survey, supporting capacity calculations, signed and sealed by a registered professional engineer and/or licensed professional land surveyor as appropriate shall be submitted to the Department. The survey shall demonstrate that the above-grade sideslopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.



**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report Submittals.**
  - a. Unless specified otherwise in this permit, all submittals, notifications, or requests for permit modification shall be provided to the Southwest District Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
2. **Operation Plan and Operating Record.**
  - a. Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections [ref. Op.Plan, Sec.L.3]. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.
  - b. Proposed changes to the current Department-approved **Operations Plan** shall be submitted in writing to the Department for review and may require a permit modification in accordance with Specific Condition #A.3. The **Operations Plan** shall be updated as operations change and for renewal of the permit. Revised pages shall be provided as replacement pages with revisions noted (deletions may be struckthrough (~~struckthrough~~) and additions may be shaded (**shaded**) or a similar method may be used) and each page numbered with the document title and date of revision.
3. **Waste Records.**
  - a. Waste records shall be maintained as required by Rule 62-701.500(4), F.A.C. The owner or operator of the facility shall weigh each load of waste as it is received (with scales at the facility) and record, in tons per day, the amount of waste debris and material received. This information shall be compiled **monthly** and submitted to the Department (Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400) **quarterly, by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup> and October 15<sup>th</sup> of each year** [ref. Op.Plan, Sec.L.4]. Waste shall not be accepted for disposal at the landfill unless weight scales are available at the facility and are in proper working condition.
  - b. The following reports, documents and other information shall be kept at the facility for reference, and copies shall be provided to the Department upon request:
    - 1) Waste quantity reports [ref. SC #D.3.a.].
    - 2) A log of the facility operator's inspections, and any subsequent corrective actions;
    - 3) Load checking records;
    - 4) Operator and spotter training certificates and other documentation; and
    - 5) Log of odor complaints and corrective action.
    - 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion;
    - 7) Documentation of incidents reported pursuant to Specific Condition C.6.;
    - 8) Water quality and gas monitoring reports.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

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

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

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

**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

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

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

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

**2. Zone of Discharge.**

a. The zone of discharge for the West Pasco Class III landfill shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed Class III 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 will not be exceeded at the boundary of the zone of discharge according to Rule 62-520.420, F.A.C., and that the ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the West Pasco Class III landfill footprint (Cells 1 through 4) are designed and shall be constructed in accordance with the document entitled "Water Quality Monitoring Plan For The West Pasco County Class III Landfill," prepared by CDM, dated March 2008, revised August 2008 [rcf SC#A.2.a(2)]. The ground water monitor wells and piezometers are located on Figure 3-1, "Ground Water Monitor Wells at the West Pasco County Class III Landfill," prepared by CDM, received March 21, 2008 (**attached**), as follow:

**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

(Specific Condition #E.3., continued)

WACS

Testsite	Scheduling				
Well #	ID #	Notes	Aquifer	Designation	Location
2MW-7	2343	A, X	Surficial	Background	See Figure 3-1
4MW-7	2340	A, X	Floridan	Background	↓
4MW-21	23065	B, Y	Floridan	Detection	↓
4MW-22	23066	B, Y	Floridan	Detection	↓
4MW-23	23067	C, Y	Floridan	Detection	↓
2MW-3A	19671	A, X	Surficial	Piezometer	See Figure 3-1
4MW-3A	19670	A, X	Floridan	Piezometer	↓
2MW-8	2344	A, X	Surficial	Piezometer	↓
4MW-8	2341	A, X	Floridan	Piezometer	↓
2MW-9	2345	A, X	Surficial	Piezometer	↓
4MW-9	2342	A, X	Floridan	Piezometer	↓
2MW-10	2346	A, X	Surficial	Piezometer	↓

Proposed monitor well 4MW-21 shall be constructed in accordance with the details provided in Figure 3-6 ("Proposed Well Construction at Floridan Well 4MW-21"), received March 21, 2008, and proposed monitor wells 4MW-22 and 4MW-23 shall be constructed in accordance with the details provided in Figure 3-7 ("Proposed Well Construction at Floridan Wells 4MW-22 and 4MW-23"), received March 21, 2008, as referenced in Section 3.1.3 of the document entitled "Water Quality Monitoring Plan For The West Pasco County Class III Landfill," prepared by CDM [ref. SC#A.2.a.(2)].

A = existing monitor well/piezometer

B = proposed monitor wells to be installed within 30 days of issuance of permit  
#26254-001-SO

C = proposed monitor well to be installed at least 30 days prior to initiation of  
debris disposal in Cell 3 or Cell 4

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted within 30 days of  
installation in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial  
sampling event shall be conducted within 7 days of well installation and development  
for the parameters listed in Specific Condition #E.4.b.

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



**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

**4. Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria 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., #E.4.c., and #E.8.b., to a precision of 0.01 foot. Ground water surface elevation contour maps of the surficial aquifer and of the Floridan aquifer shall be prepared for each set of water level measurements (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**

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

**Laboratory Parameters**

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

**c.** Background and detection wells 2MW-7, 4MW-7, 4MW-21 and 4MW-22 shall be sampled **semi-annually** (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

**Field Parameters**

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

**Laboratory Parameters**

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

Following the completion of the "initial sampling event" at proposed well 4MW-23 in accordance with the schedule presented in Specific Condition #E.3., this new detection well shall be included in subsequent routine ground water sampling events.

**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

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

a. Prior to construction of all new or replacement wells (excluding proposed wells 4MW-21 through 4MW-23) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.

b. Construction Details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached) [or as replaced by Department Form #62-701.900(30)].

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 Rules 62-701.510(8)(a) and (8)(d), F.A.C.

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

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment within 30 days of abandonment. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

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



**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

**8. Surface Water Sampling.** All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries which do not discharge from the site to surface waters (Rule 62-701.510(4), F.A.C.). It is not anticipated that the existing stormwater management system will discharge from the property. However, in the event that a 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 landfill 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 standards. Compliance with surface water criteria will be based on analysis of unfiltered samples.

**b.** Surface water sampling shall be conducted at the point of discharge from the property **per discharge event** in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(4) and 62-701.510(6)(e), F.A.C. In the event that the discharge has ceased prior to being able to collect a sample, the closest location within the stormwater management system to the discharge location shall be sampled to represent that particular discharge event. The Solid Waste Section of the Department 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:

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

**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

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

a. Representative leachate samples shall be collected from each of the leachate holding tanks at the locations shown on Figure 3-1, "Ground Water Monitor Wells at the West Pasco County Class III Landfill," prepared by CDM, received March 21, 2008 (**attached**), as follow:

<u>Leachate</u> <u>Sample ID #</u>	<u>Landfill Cell</u>	<u>WACS Testsite</u> <u>ID #</u>
Tank #1	Cells #1 and #2	2507
Tank #2	Cells #3 and #4	2508

Individual leachate samples shall be collected from each of the leachate holding tanks for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Tank #1 and Tank #2 shall not be composited.

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

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

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 each of the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. 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.



**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

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

**Electronic Data Deliverable (EDD) Portions of Report:**

- An EDD on compact disk or flash drive media readable by Microsoft Windows in a format consistent with the requirements for evaluating the data and importing it into the Department databases that includes both field sampling data and laboratory data. The requirements for preparation of the EDD can be obtained on the Department's website at: <http://www.dep.state.fl.us/labs/dqa/adaptedms.htm>. The EDD shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)7, F.A.C.

**Hard Copy Portions of Report:**

- Department Form 62-701.900(31) ["Water Quality Monitoring Certification"], certifying that the permittee has reviewed and approved the laboratory results;
- Certified laboratory report of results;
- Chain-of-custody documentation;
- Department SOP Form PD 9000-24 ["Ground Water Sampling Log"] for ground water sampling events; and,
- The information required by Rules 62-701.510(9)(a)8 through 62-701.510(9)(a)10, F.A.C.

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

- a. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
- b. Specific Condition #E.4.c. - results of ground water semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;
- c. Specific Condition #E.7. - results of ground water verification events shall be submitted **within 60 days from completion of laboratory analyses;**
- d. Specific Condition #E.8.b. - results of surface water discharge sampling events shall be submitted **within 60 days from completion of laboratory analyses;**
- e. 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 15<sup>th</sup> of each year** for the periods January 1 to December 31;
- f. Specific Condition #E.9.c. - results of monthly leachate sampling events shall be submitted **within 60 days from completion of laboratory analyses.**

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

**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

11. **Monitoring Plan Evaluation.** By November 1, 2010 and May 1, 2013, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
November 1, 2010	Second half 2006	First half 2010
May 1, 2013	Second half 2010	Second half 2012

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

**SPECIFIC CONDITIONS: PART F - Landfill Gas Management**

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

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

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

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

**2. Gas Monitoring and Control.**

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

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

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

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

**SPECIFIC CONDITIONS: PART F - Landfill Gas Management**

**3. Gas Monitoring Locations.** Surficial aquifer monitor wells 2MW-7, 2MW-8 and 2MW-10 shown on Figure 3-1, "Ground Water Monitor Wells at the West Pasco County Class III Landfill," prepared by CDM, received March 21, 2008," prepared by CDM, received March 21, 2008 (**attached**), and the adjacent scale house and operator's office 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 monitoring shall be conducted in accordance with Section 9 of the document entitled "Landfill Operations Plan For West Pasco Class III Landfill," prepared by CDM, dated October 2007, revised June 2008 [ref.SC#A.2a(1)], at the following locations:

<u>Monitoring Locations</u>	<u>Location Description</u>
Well 2MW-7	South of Class III landfill
Well 2MW-8	West of Cell 1
Well 2MW-10	Near northwest corner of Class III landfill
Scale house	Near southwest corner of Class III landfill
Operator's office	Near southwest corner of Class III landfill

The monitor wells used as gas monitoring locations are to be clearly labeled and easily visible at all times.

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

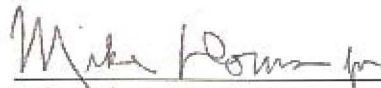


**SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements**

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Deborah A. Getzoff  
District Director  
Southwest District

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	No later than May , 2012	Submit permit renewal application
A.9.b.	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of sinkholes or subsurface instability  Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.5.b.	Within 60 days of initial detection	Submit odor abatement plan
C.6.b.	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment, damage to leachate impoundments  Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate or stormwater management system
C.6.f.	Within 30 days of written notification from the Department	Submit corrective action plan for chronic erosion of intermediate cover.
C.8.c.(1)	No later than 30 days prior to expiration of leachate disposal agreements/contracts	Submit copies of contract/agreement renewal or new contracts/agreements
C.8.d.(3)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
D.3.a.		Submit waste records to Tallahassee
C.8.e.(2)	No later than May 1, 2013	Submit report of jet cleaning and video inspection of LCS piping.
C.13.a.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by September 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7.	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.b.	Per discharge event	Sample surface water discharging from property
E.9.b.	Annually	Conduct leachate sampling
E.10.	Semi-annually, by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year  Annually, by January 15 <sup>th</sup> of each year  Within 60 days of completion of laboratory analyses	Submit ground water quality monitoring analyses (SC#E.4.c.)  Submit leachate quality monitoring analyses (SC#E.9.b.)  Submit initial ground water sampling results (SC#E.4.b.), ground water verification sampling results (SC#E.7.), surface water discharge event sampling results (SC#E.8.b.), and monthly leachate sampling events (SC#E.9.c.)
E.11.	November 1, 2010 and May 1, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application



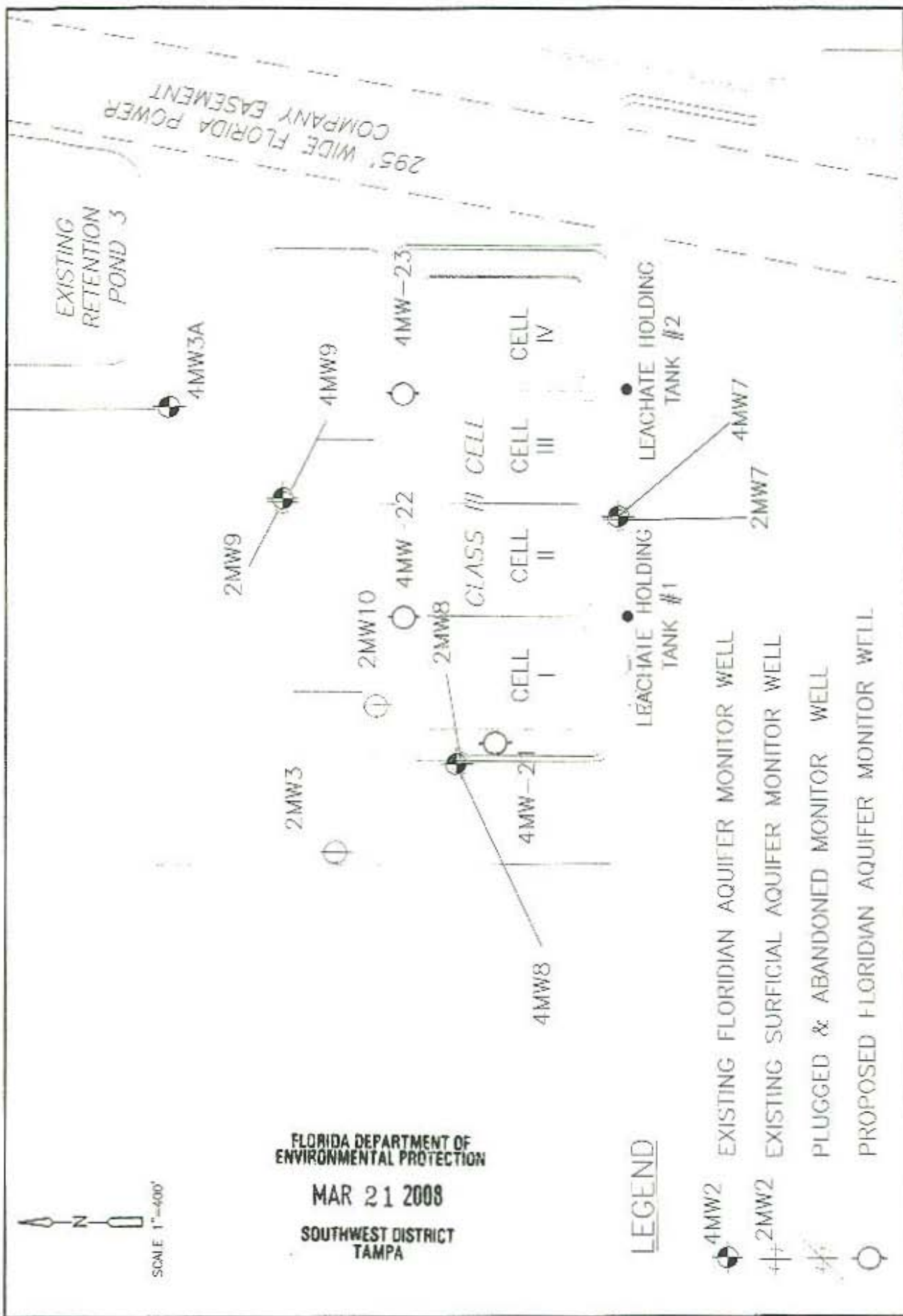


FIGURE 3-1  
GROUNDWATER MONITOR WELLS AT THE  
WEST PASCO COUNTY CLASS III LANDFILL

**CDM**

consulting • engineering • construction • operations



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

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

## MONITOR WELL COMPLETION REPORT

DATE: \_\_\_\_\_

INSTALLATION NAME: \_\_\_\_\_

DEP PERMIT NUMBER: \_\_\_\_\_ GMS NUMBER: \_\_\_\_\_

WELL NUMBER: \_\_\_\_\_ WELL NAME: \_\_\_\_\_

DESIGNATION: Background \_\_\_\_\_ Immediate \_\_\_\_\_ Compliance \_\_\_\_\_

LATITUDE/LONGITUDE: \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

INSTALLATION METHOD: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_ (bls) DEPTH OF SCREEN: \_\_\_\_\_ (bls)

SCREEN LENGTH: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN TYPE: \_\_\_\_\_

CASING DIAMETER: \_\_\_\_\_ CASING TYPE: \_\_\_\_\_

LENGTH OF CASING: \_\_\_\_\_ FILTER PACK MATERIAL: \_\_\_\_\_

TOP OF CASING ELEVATION (MSL): \_\_\_\_\_

GROUND SURFACE ELEVATION (MSL): \_\_\_\_\_

COMPLETION DATE: \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: (soils information, stratigraphy, etc.): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

REPORT PREPARED BY: \_\_\_\_\_  
(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface