

Prepared for



Omni Waste

of Osceola County, LLC

1501 Omni Way
St. Cloud, FL 34773

**RESPONSES TO RAI #1
RENEWAL PERMIT APPLICATION
PHASES 2 AND 3**

OAK HAMMOCK DISPOSAL FACILITY

Prepared by

RECEIVED
NOV 21 2006
Central Dist. - DEP

Geosyntec
consultants

engineers | scientists | managers
14055 Riveredge Drive, Suite 300
Tampa, FL 33637

Project Number FL0916
November 2006
PDF Doc. #GEAG-06-13F

17 November 2006

Mr. James N. Bradner, P.E.
Manager, Solid and Hazardous Waste Program
Florida Department of Environmental Protection, Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Subject: Response to Request for Additional Information
Permit Application Nos. SC49-0199726-004-004 & SO49-0199726-004-005
Renewal Permit Application (Phases 2 and 3)
Oak Hammock Disposal Facility
Osceola County, Florida

Dear Mr. Bradner:

GeoSyntec Consultants (GeoSyntec) has prepared this letter on behalf of Omni Waste of Osceola County, LLC (Omni) to address the first request for additional information (RAI) from the Florida Department of Environmental Protection (FDEP) on the above-referenced permit application. The Renewal Permit Application was submitted to permit the construction and operation of Phases 2 and 3 at the Oak Hammock Disposal (OHD) facility in Osceola County, Florida. The RAI was addressed to Omni in a letter dated 12 October 2006, which is included as Attachment 1.

This response is intended to supplement the Renewal Permit Application dated 11 September 2006. Each RAI has been reproduced in italic font below and the response to the RAI is given in normal font. As requested by FDEP, three copies of the response to the first RAI (related to the Renewal Permit Application) are being provided to FDEP.

FDEP Comment

1. The applicant must notify the local government having jurisdiction over the facility of the filing of the permit application before or on the same day of filing the application with the Department. Submit proof to the Department that the local government was notified.

Response

The local government has been notified. As discussed with FDEP, a notification letter was sent to the Chairman of the Osceola County Board of County Commissioners and the Commissioner of District 5 (i.e., the district in which the landfill is located). The notification letters and the proof of mailing are included in Attachment 2.

FDEP Comment

2. An updated operation plan and biennial report are required. Both are referenced in Department correspondence OCD-SW-06-0475, dated September 21, 2006, a copy of which is attached. Submit the biennial report and revised operation plan as part of the response to this letter.

Response

The Operation Plan for the OHD facility has been updated to address FDEP's comments in the referenced letter dated 21 September 2006. Each of the comments in FDEP's letter is individually addressed following these RAI responses. The updated Operation Plan for the OHD facility is included in Attachment 3. The biennial groundwater monitoring report is being submitted under a separate cover.

FDEP Comment

3. Submit the name and address of the wastewater treatment plant and the name and phone number of the contact person at the wastewater treatment plant where leachate from the landfill will be transported and treated.

Response

The leachate from the OHD facility is transported to the St. Cloud wastewater treatment plant (WWTP) located at 1300 9th Street, St. Cloud, Florida 34769. The name and phone number for the contact person at the WWTP are Howard Miller and 407-957-7340, respectively.

FDEP Comment

4. The Financial Assurance Cost Estimate in Appendix R of the report has been approved and forwarded to the Financial Coordinator at the address shown below. A

Mr. James N. Bradner, P.E.

17 November 2006

Page 3

financial mechanism must be funded for Phases I, II and III, in the amount of the sum of the total closure and long-term care costs specified in the approved cost estimate and accepted by the Department's Financial Coordinator before this application can be deemed complete. Financial responsibility arrangements for the facility for the approved amounts are to be made with the Financial Coordinator, Solid Waste Section, MS-4565, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and a copy of the approval letter submitted to: Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

Response

Appendix R of the Renewal Permit Application includes the closure and long-term care costs for all six cells in proposed Phases 2 and 3 of the OHD facility. Section 6.5 of the Renewal Permit Application presents the closure and long-term care costs for each cell (Cells 5 through 10) in Phases 2 and 3.

During development of proposed Phases 2 and 3, it is expected that one cell will be constructed at a time on an as-needed basis (as was done during development of Phase 1 of the OHD facility). As a result, it is requested that Omni be required to provide financial assurance only for the cells that have been constructed at the landfill and not for the entire phases permitted to be constructed.

It is requested that the closure and long-term care costs for each cell presented in Section 6.5 of the Renewal Permit Application be approved. These costs will be updated on an annual basis. Each time a new cell in proposed Phases 2 and 3 is constructed, the financial assurance mechanism for the OHD facility will be updated to include all constructed cells at the landfill (as was done during development of Phase 1). The financial assurance mechanism will be updated at least 60 days prior to accepting waste in any newly constructed cell in proposed Phases 2 and 3.

FDEP's letter dated 21 September 2006 (OCD-SW-06-0475)

The comments related to the Operation Plan (for the OHD facility) in FDEP's letter (OCD-SW-06-0475) dated 21 September 2006 are addressed below. Each FDEP comment has been reproduced in italic font and the response to the comment is given in normal font.

1. Section 2.1.2: Employee Training

The training plan on Page 3 must be updated. This section indicates that that landfill employees would receive initial training and that various phases of training will be conducted by a trained landfill operator, spotter etc. The training plan must include:

- A list of trained spotters and operators and a tentative schedule of classes to be taken by each employee within the next three years. (Submittal of copies of a list and schedules of classes from TREEO is not acceptable).*

A list of trained spotters and operators at the OHD facility has been included in Appendix A of the Operation Plan. This list includes the certification expiration date for all certified spotters and operators at the landfill. Omni does not maintain a tentative schedule of classes to be taken by the certified employees. However, all certified employees receive appropriate continuing education training (on an ongoing basis) to comply with the certification requirements. It is noted that all certification training (initial and continuing education) is provided by FDEP-approved, qualified, independent third party. Section 2.1.2 of the updated Operation Plan has been revised accordingly.

- A mechanism for providing proof of training.*

As noted in the Operation Plan, all training records for the employees are maintained at the facility and are available for review upon request. If required by FDEP, Omni can submit the updated training records to FDEP on an annual basis (along with one of the waste quantity reports).

- Acknowledgement that all training courses, whether public or in-house, shall be approved by the Department in accordance with Section 403.716, F.S., and that a third party must administer any examination required by this subsection for an in-house operator training program.*

Omni does not have an in-house training program for certifying spotters and operators. As noted above, all certification training (initial and continuing education) is provided by FDEP-approved, qualified, independent third party.

2. Section 2.2.3/6.4: Public Use/Site User Rules

Where do the private vehicles unload? Is there a designated area for the public ("mom and pop") to unload? If yes, include this information in the plan. If the area is established each workday, then the Plan should describe how the decision is made to designate the area,

such as how far it is located from the commercial unloading area. How large should the working face be in the public unloading area?

Small, private vehicles are directed to unload in the appropriate disposal area by the scale master. Private vehicles are typically directed to unload in two 20-yard roll-off containers located in the administrative area. However, private vehicles with a dump trailer are directed to the landfill. These vehicles are directed to unload in an area away from the commercial waste trucks and are assisted to unload and return as quickly as practical. Section 2.2.3 of the updated Operation Plan has been revised accordingly.

3. Section 5.7: Inclement Weather

Update this section to include a detailed severe weather preparedness plan that describes contingency operations in the event of a severe storm or hurricane. Specifically address procedures to be followed during the 48-24 hours prior to expected arrival of a hurricane and after the hurricane.

Severe weather or hurricane preparedness plan has been added as Section 5.7.3 in the updated Operation Plan for the OHD facility.

4. Section 5.8: Problems affecting the Leachate Collection and Removal System

Page 33-34, does not address procedures for the management of leachate in the ponds during heavy rainfall events such as tropical storm or hurricanes. Address all necessary precautions that would be taken if the ponds do overflow. You could describe, based on engineering calculations, rain events (for example, rainfall greater than 3 inches in a 24 hour period) that would necessitate special actions.

The leachate at the OHD facility is stored in sealed geomembrane flexible bladders. The geomembrane bladders were constructed using 60-mil HDPE liner and are completely sealed. It is highly unlikely that these bags will be ruptured and leachate will overflow from the leachate storage area. Further, the maximum leachate level in each of the four bladders is designed to be 3 feet below the crest of the perimeter/outer dike and 2 below the crest of the partition dikes (see Sheet 21 of the Renewal Permit Drawings). Even if the leachate in any one bladder rises above the maximum leachate level (due to some malfunctioning of the control system), it will simply overtop the partition dike and flow into another bladder area (since the crest of the partition dikes between the bladders were designed to be 1-foot lower than the crest of the perimeter/outer dike).

The existing leachate storage at the OHD facility has a design capacity of over a million gallons. The leachate levels in the flexible storage containers are managed such that sufficient storage capacity is available during the monsoon season.

5. Section 7: Final Closure/Closed Landfill (Cells) Inspections

How often would the final cover be inspected for integrity of the cap, differential settlement, ponding, erosion, and condition of vegetation? If problems are found, how will repairs be initiated? Describe the procedures for inspection of the closed cells.

The facility inspection schedule (including the final cover system inspection in completed areas) is discussed in Section 4.2.5 of the Operation Plan. Any damage to the final cover system identified during these inspections or otherwise, will be repaired as discussed in Sections 4.2.4 and 4.3.3 of the Operation Plan.

The following items were not addressed but must be included in the Plan:

6. *Erosion control Rule 62-701.500(7)(j), Florida Administrative Code indicates that corrective action to repair erosion must be implemented within three days of occurrence. If it cannot be corrected the Department must be notify within seven days of the occurrence with a proposed correction schedule. Add this condition to the Plan.*

The above condition has been added in Section 4.2.3 of the Operation Plan. Erosion occurring during regular operation of the landfill will be repaired on an ongoing basis.

7. Gas Monitoring

Gas monitoring is not addressed in the current Plan. Include Section 5 "Landfill Gas Management" as part of the Plan that was submitted with the renewal permit application.

Landfill gas monitoring plan has been added as Section 4.5 in the updated Operation Plan for the OHD facility.

8. Records Submittal

The FDEP addresses (email or street) should be included. All reports including waste quantity should be addresses to James Bradner, by email at James.Bradner@dep.state.fl.us or by mail to FDEP – Central District, Solid Waste Program, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803.

Mr. James N. Bradner, P.E.
17 November 2006
Page 7

It is GeoSyntec's understanding that all reports and records related to the OHD facility have been submitted to Mr. Bradner of FDEP and will continue to be addressed to him going forward.

9. *List of Emergency Contacts must include FDEP contact.*

FDEP's contact information has been added to the list of emergency contacts in Appendix C of the updated Operation Plan for the OHD facility.

10. *Include an updated site plan depicting actual areas of disposal and ancillary operations.*

The construction sequencing plans (including cells containing waste, cell under construction, owner's operation area, and contractor laydown area) for proposed Phases 2 and 3 were presented on Sheets 25 and 26 of the Renewal Permit Drawings, respectively, (that were submitted to FDEP along with the Renewal Permit Application in September 2006).

Closure

If you have any questions or need additional information, please do not hesitate to contact the undersigned.

Sincerely,



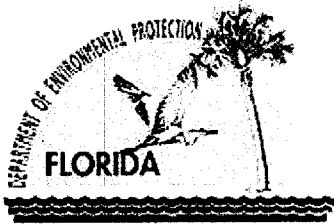
Ayushman Gupta, P.E.
Senior Engineer

Attachments

Copy to: Shawn McCash, WSI/Omni
Matt Orr, WSI/Omni

ATTACHMENT 1

**FDEP'S RAI #1
DATED 12 OCTOBER 2006**



Department of Environmental Protection

Jeb Bush
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Colleen Castille
Secretary

By E-Mail
smccash@wasteservices.com

Mr. Shawn McCash
Omni Waste of Osceola County, LLC
1501 Omni Way
St. Cloud, FL 34473

OCD-SW-06-0492

Osceola County – SW
Oak Hammock Disposal, Class I
Permit Application Nos. SC49-0199726-004 & SO49-0199726-005

Dear Mr. McCash:

Your application for permit received on September 12, 2006, is incomplete. Please provide the information listed on the attached sheet promptly. Evaluation of your application will be delayed until all the requested information has been received.

Pursuant to Section 120.60(2), Florida Statutes, the Department may deny an application, if the applicant, after receiving timely notice, fails to correct errors and omissions, or supply additional information within a reasonable period of time. Accordingly, please provide the additional information within 30 days of the date you receive this letter. Submit three copies of the requested information to the Department and reference the above permit application number in your correspondence.

If you have any questions, please contact me at (407) 893-3328.

Sincerely,

James N. Bradner, P.E., Manager
Solid and Hazardous Waste Program

Date: October 12, 2006

JNB/gc/ew

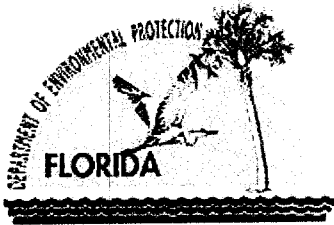
Enclosures

cc: Ayushman Gupta, P.E. – Geosyntec Consultants agupta@geosyntec.com

Mr. Shawn McCash
OCD-SW-06-0492
Page 2

Note that all references to "Report" in the following text refer to the document entitled, "Renewal Permit Application to Construct and Operate Phases 2 and 3 Of The Oak Hammock Disposal Facility," Prepared by: Geosyntec Consultants, Tampa, Florida 33637 dated September 2006.

1. The applicant must notify the local government having jurisdiction over the facility of the filing of the permit application before or on the same day of filing the application with the Department. Submit proof to the Department that the local government was notified.
2. An updated operation plan and biennial report are required. Both are referenced in Department correspondence OCD-SW-06-0475, dated September 21, 2006, a copy of which is attached. Submit the biennial report and revised operation plan as part of the response to this letter.
3. Submit the name and address of the wastewater treatment plant and the name and phone number of the contact person at the wastewater treatment plant where leachate from the landfill will be transported and treated.
4. The Financial Assurance Cost Estimate in Appendix R of the report has been approved and forwarded to the Financial Coordinator at the address shown below. A financial mechanism must be funded for Phases I, II and III, in the amount of the sum of the total closure and long-term care costs specified in the approved cost estimate and accepted by the Department's Financial Coordinator before this application can be deemed complete. Financial responsibility arrangements for the facility for the approved amounts are to be made with the Financial Coordinator, Solid Waste Section, MS-4565, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and a **copy of the approval letter submitted to:** Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.



Department of Environmental Protection

Jeb Bush
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Colleen Castille
Secretary

By Electronic Mail:
morr@wasteservicesinc.com

Mr. Matthew Orr
Omni Waste of Osceola County, LLC
1501 Omni Way
St. Cloud, FL 34773

OCD-SW-06-0475

Osceola County - SW
Oak Hammock Landfill (J.E.D.) - Class I
Permit # SO49-0197726-002
Routine Inspection/Complaint Investigation

Dear Mr. Orr:

On July 20, 2006, representatives of the Florida Department of Environmental Protection conducted an inspection at the facility. A private citizen had complained that while disposing of solid waste at the facility he was punctured with a hypodermic needle. This inspection will also be considered as the routine quarterly inspection. A copy of the inspection report is attached. Additional comments are as follows:

The Department personnel did not observe any biomedical waste during the inspection. They were informed that the facility routinely accepts treated biomedical waste from Medico Environmental Services which operates an autoclave system for the treatment of biomedical waste. Subsequent to the inspection, copies of the treatment procedure and the charts for June 16, 2006 treatment were received by the Department on July 22, 2006.

The west side of the inactive portion of the landfill cell was eroded in several areas. However, sod was being applied at the time of the inspection. The erosion appeared to have occurred more than seven days. Please note, according to Rule 62-701.500(7) (j), Florida Administrative Code (F.A.C.), indicates that corrective measures to repair erosion must be implemented within three days of occurrence. If the erosion cannot be corrected within seven days of occurrence the landfill operator must notify the Department and propose a correction schedule.

The Department's records indicate that a biennial report is due at this time.

We reviewed the Operation Plan on file with the Department, and propose the following updates. The updated operation plan also will satisfy the requirements of the permit renewal application received on September 12, 2006.

1. Section 2.1.2: Employee Training

The training plan on Page 3 must be updated. This section indicates that that landfill employees would receive initial training and that various phases of training will be conducted by a trained landfill operator, spotter etc.

The training plan must include:

- A list of trained spotters and operators and a tentative schedule of classes to be taken by each employee within the next three years. (Submittal of copies of a list and schedules of classes from TREEO is not acceptable).
- A mechanism for providing proof of training.
- Acknowledgement that all training courses, whether public or in-house, shall be approved by the Department in accordance with Section 403.716, F.S., and that a third party must administer any examination required by this subsection for an in-house operator training program.

2. Section 2.2.3/6.4: Public Use/Site User Rules

Where do the private vehicles unload? Is there a designated area for the public ("mom and pop") to unload? If yes, include this information in the plan. If the area is established each workday, then the Plan should describe how the decision is made to designate the area, such as how far it is located from the commercial unloading area. How large should the working face be in the public unloading area?

3. Section 5.7: Inclement Weather

Update this section to include a detailed severe weather preparedness plan that describes contingency operations in the event of a severe storm or hurricane. Specifically address procedures to be followed during the 48-24 hours prior to expected arrival of a hurricane and after the hurricane.

- 4. Section 5.8: Problems affecting the Leachate Collection and Removal System:** Page 33-34, does not address procedures for the management of leachate in the ponds during heavy rainfall events such as tropical storm or hurricanes. Address all necessary precautions that would be taken if the ponds do overflow. You could describe, based on engineering calculations, rain events (for example, rainfall greater than 3 inches in a 24 hour period) that would necessitate special actions.

5. Section 7: Final Closure/Closed Landfill (Cells) Inspections:

How often would the final cover be inspected for integrity of the cap, differential settlement, ponding, erosion, and condition of vegetation? If problems are found, how will repairs be initiated? Describe the procedures for inspection of the closed cells.

The following items were not addressed but must be included in the Plan:

6. Erosion control

Rule 62-701.500(7)(j), Florida Administrative Code indicates that corrective action to repair erosion must be implemented within three days of occurrence. If it cannot be corrected the Department must be notified within seven days of the occurrence with a proposed correction schedule. Add this condition to the Plan.

7. Gas monitoring

Gas monitoring is not addressed in the current Plan, Include Section 5 "Landfill Gas Management" as part of the Plan that was submitted with the renewal permit application.

8. Records Submittal

The FDEP addresses (email or street) should be included. All reports including waste quantity should be addressed to James Bradner, by email at James.Bradner@dep.state.fl.us or by mail to FDEP – Central District, Solid Waste Program, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803.

9. List of Emergency Contacts must include FDEP contact.

10. Include an updated site plan depicting actual areas of disposal and ancillary operations.

Please contact Gloria-Jean De Pradine by telephone at (407) 893-3994 or by e-mail at or gloria.depradine@dep.state.fl.us if you have any questions or need additional information.

Sincerely,



F. Thomas Lubozynski, P.E.
Waste Program Administrator

Date: September 21, 2006



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT FACILITY INSPECTION CHECKLIST

Facility Name: Oak Hammock (J.E.D.) Landfill

WACS No.: 89544 COMET Project Number: 265352

Inspection Date: 7/20/06 Permit No.: SC-019976-001 & SO49-0197726-002 Expiration Date: 08/28/07

Facility Address: 1501 Omni Way (6.5 miles South of Holopaw, on the Westside of US Highway 442)

City: Holopaw County: Osceola Zip: 34773

Permittee or Operating Authority: Omni Waste of Osceola County, LLC

Telephone Number (Permittee or Operating Authority): 407-891-3720

Inspection Participants (Include ALL Facility and Department Employees With Corresponding Titles):

Principal Inspector: Randall Cunningham (DEP), Gloria-Jean De Pradine (DEP)

Other Participants: Charles McLendon, David Collins

TYPE OF FACILITY (check all that apply):

- | | | | |
|---|---|--|--|
| Landfill:
<input checked="" type="checkbox"/> Class I
<input type="checkbox"/> Class II
<input type="checkbox"/> Class III | C&D Facility:
<input type="checkbox"/> Disposal
<input type="checkbox"/> Disposal w/Recycling
<input type="checkbox"/> Land Clearing | Waste Processing Facility:
<input type="checkbox"/> Transfer Station
<input type="checkbox"/> C&D Recycling
<input type="checkbox"/> Class III MRF
<input type="checkbox"/> MSW MRF
<input type="checkbox"/> Pulverizer/Shredder
<input type="checkbox"/> Compactor/Baling
<input type="checkbox"/> Other _____ | Other Facilities:
<input type="checkbox"/> Composting Facility
<input type="checkbox"/> WTE Facility
<input type="checkbox"/> Waste Tire Facility
<input type="checkbox"/> Yard Trash Processing Facility
<input type="checkbox"/> Stationary Soil Treatment Facility
<input type="checkbox"/> Incinerator/Trench Burner
<input type="checkbox"/> Unauthorized Disposal
<input type="checkbox"/> Other _____ |
|---|---|--|--|

TYPE OF INSPECTION (check all that apply):

- | | | |
|--|---|--------------------------------------|
| <input checked="" type="checkbox"/> Operation
<input type="checkbox"/> Closure
<input type="checkbox"/> Long-Term Care | <input type="checkbox"/> Complaint Investigation
<input checked="" type="checkbox"/> Routine Inspection
<input type="checkbox"/> Follow-up Inspection | <input type="checkbox"/> Other _____ |
|--|---|--------------------------------------|

ATTACHMENTS TO THE INSPECTION CHECKLIST (check all that apply):

This Cover Page includes the following attachments.

Section No.	Section Title
<input checked="" type="checkbox"/> 1.0	File Review
<input checked="" type="checkbox"/> 2.0	Landfill Operation and Maintenance
<input type="checkbox"/> 3.0	Landfill Long-Term Care
<input type="checkbox"/> 4.0	Waste Processing Facilities
<input type="checkbox"/> 5.0	C&D Debris Disposal Facilities
<input type="checkbox"/> 6.0	Recycling Operations at C&D Debris Disposal Facilities
<input type="checkbox"/> 7.0	Land Clearing Debris Disposal Facilities
<input type="checkbox"/> 8.0	Compost Facilities
<input type="checkbox"/> 9.0	Waste Tire Facilities
<input type="checkbox"/> 10.0	Yard Trash Processing Facilities
<input type="checkbox"/> 11.0	Stationary Soil Treatment Facilities
<input type="checkbox"/> 12.0	WTE Facilities
<input type="checkbox"/> 13.0	Compliant Investigations
<input checked="" type="checkbox"/> 14.0	Narrative and Signatures

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION INSPECTION CHECKLIST

SECTION 1.0 – FILE REVIEW

REQUIREMENTS:

THE REQUIREMENTS LISTED IN THIS INSPECTION CHECKLIST ARE BASED UPON RULES OF THE FLORIDA ADMINISTRATIVE CODE. A "NOT OK" RESPONSE TO A REQUIREMENT (UNLESS OTHERWISE NOTED) REFLECTS A POSSIBLE VIOLATION OF THE CORRESPONDING DEPARTMENT RULE(S) AT THE TIME OF THE INSPECTION. EACH POSSIBLE VIOLATION IS DISCUSSED IN THE NARRATIVE SECTION OF THIS REPORT. SOME REQUIREMENTS MAY BE IDENTIFIED AS "OK" BUT ARE DISCUSSED FURTHER IN THE "AREAS OF CONCERN" PORTION OF THE NARRATIVE SECTION.

FILE REVIEW (Pre- or Post-Inspection, as appropriate.)		OK	Not OK	Unk	N/A
1.1	For landfills, is the method and sequence of filling wastes according to plans? 62-701.500(2)(f)	X			
1.2	For landfills, are the following records being reported to the Department? (Check any that are Not OK.) <input type="checkbox"/> Waste reports (quarterly) 62-701.500(4) <input type="checkbox"/> Annual estimate of remaining life 62-701.500(13)(c)	X			
1.3	Is leachate sampled, tested and disposed as required? 62-701.500(8)(a) & 62-701.510(6)(c)	X			
1.4	Is gas monitoring being performed as required by the permit? 62-701.500(9) & 62-701.530(2)	X			
1.5	Are the results of the gas sampling reported to the Department quarterly? 62-701.530(2)	X			
1.6	Is water quality sampling and testing performed according to standard procedures and at the required frequencies? See 62-701.510(2) for landfills; 62-701.730(4)(b) & (10) for C&D debris sites; 62-713.400(3) for stationary soil treatment facilities.	X			
1.7	Do the results of the water quality testing suggest there may be adverse impacts to water quality from the operation of the solid waste facility? 62-701.510(3) & (4)	X			
1.8	For closed landfills and C&D disposal facilities with final elevations higher than 20 feet above grade, has a final survey report verifying the final elevations and contours of the facility been submitted to the Department? 62-701.610(3) & 62-701.730(9)(c)				X
1.9	Is financial assurance adequate? See 62-701.630 for landfills; 62-710(7)(a) & (10)(a) for WPFs; 62-701.730(11)(a) for C&D debris facilities; 62-713.600(6)(a) for stationary soil treatment facilities; 62-711.500(3) for waste tire facilities. NOTE: The Solid Waste Financial Coordinator in Tallahassee can assist with this information.	X			
1.10	Are cost estimates current and adjusted every year? See 62-701.630(4) for landfills; 62-710(7)(b) & (10)(a) for WPFs; 62-701.730(11)(b) for C&D debris facilities; 62-713.600(6)(b) & (c) for stationary soil treatment facilities.	X			
1.11	For C&D debris disposal and disposal with recycling facilities, is an Annual Report submitted to the Department for the disposal operation by April 1 st of each year? 62-701.730(12)				X
1.12	For C&D recycling facilities with no disposal, is an Annual Report for the recycling operation submitted to the Department by April 1 st of each year? 62-701.710(9)(b)				X
1.13	For compost facilities, has the compost product been sampled and analyzed every 20,000 tons or every 3 months (whichever is sooner)? 62-709.530(1)				X
1.14	For compost facilities, has the annual report been submitted by June 1 st ? 62-709.530(3)				X

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION INSPECTION CHECKLIST

SECTION 2.0 – LANDFILL OPERATION AND MAINTENANCE

REQUIREMENTS:

THE REQUIREMENTS LISTED IN THIS INSPECTION CHECKLIST ARE BASED UPON RULES OF THE FLORIDA ADMINISTRATIVE CODE. A "NOT OK" RESPONSE TO A REQUIREMENT (UNLESS OTHERWISE NOTED) REFLECTS A POSSIBLE VIOLATION OF THE CORRESPONDING DEPARTMENT RULE(S) AT THE TIME OF THE INSPECTION. EACH POSSIBLE VIOLATION IS DISCUSSED IN THE NARRATIVE SECTION OF THIS REPORT. SOME REQUIREMENTS MAY BE IDENTIFIED AS "OK" BUT ARE DISCUSSED FURTHER IN THE "AREAS OF CONCERN" PORTION OF THE NARRATIVE SECTION.

SOLID WASTE PROHIBITIONS (unless "grandfathered" in, see 62-701.300(16))		OK	Not OK	Unk	N/A
2.1	Unauthorized disposal/storage prohibited, except yard trash, within 500' of a potable water well? 62-701.300(2)(b)	X			
2.2	Unauthorized disposal/storage prohibited, except yard trash, within 1000' of a potable water well serving a community water system? 62-701.300(2)(h)	X			
2.3	Unauthorized storage/disposal of yard trash prohibited within the minimum setbacks of (Check any that are Not OK): 62-701.300(12) <input type="checkbox"/> 100 feet for potable water wells (except on-site)? <input type="checkbox"/> 50 feet for water bodies? <input type="checkbox"/> 200 feet for community water supply wells?	X			
2.4	Unauthorized disposal/storage prohibited in an area subject to frequent and periodic flooding unless flood protection measures in place? 62-701.300(2)(d)	X			
2.5	Unauthorized disposal/storage prohibited in any natural or artificial body of water including ground water? 62-701.300(2)(e)	X			
2.6	Unauthorized disposal/storage prohibited, except yard trash, within 200' of any natural or artificial body of water, including wetlands without permanent leachate controls, except impoundments or conveyances which are part of an on-site, permitted stormwater management system or on-site water bodies with no off-site discharge? 62-701.300(2)(f)	X			
2.7	Unauthorized open burning of solid waste prohibited except in accordance with Department requirements? 62-701.300(3)	X			
2.8	Are the following prohibited wastes or special wastes properly controlled, managed and disposed? (Check any that are Not OK) <input type="checkbox"/> Hazardous waste 62-701.300(4) <input type="checkbox"/> PCB wastes 62-701.300(5) <input type="checkbox"/> Biomedical waste 62-701.300(6) <input type="checkbox"/> Lead-acid batteries 62-701.300(8)(a) <input type="checkbox"/> Yard trash 62-701.300(8)(c) <input type="checkbox"/> White goods 62-701.300(8)(d) <input type="checkbox"/> Whole waste tires 62-701.300(8)(e) <input type="checkbox"/> Liquids 62-701.300(10) <input type="checkbox"/> Used oil, except as exempted 62-701.300(11) <input type="checkbox"/> Lead-acid batteries, mercury-containing switches and lamps in WTEs 62-701.300(9)	X			
2.9	Are only permitted waste types disposed at facility? 62-701.340(3), 62-701.500(6)(a)&(2)(c)	X			

LANDFILL OPERATION AND MAINTENANCE		OK	Not OK	Unk	N/A
2.10	Is there a trained operator on-site at Class I and III landfills when receiving wastes? 62-701.500(1)	X			
2.11	Is there at least one spotter at each working face when receiving wastes at Class I and III landfills? 62-701.500(1)	X			
2.12	Are the following records or plans current and available on-site? (Check any that are Not OK.) <input type="checkbox"/> Training Plan 62-701.320(15)(a) <input type="checkbox"/> Training records 62-701.320(15)(a) <input type="checkbox"/> Operating Plan 62-701.500(2) <input type="checkbox"/> Operation record 62-701.500(3) <input type="checkbox"/> Waste weight records 62-701.500(4) <input type="checkbox"/> Quantity of leachate 62-701.500(8)(f) <input type="checkbox"/> Precipitation records 62-701.500(8)(g) <input type="checkbox"/> Load-checking program records 62-701.500(6)(a)	X			
2.13	Is the operation plan substantially followed? 62-701.500(2)	X			
2.14	Is incoming waste weighed? 62-701.500(4)(a)&(2)(d)	X			
2.15	Is the method and sequence of filling wastes according to plans? 62-701.500(2)(f)	X			
2.16	Is access properly controlled to prevent unauthorized waste disposal? 62-701.500(5)	X			
2.17	Is waste compacted as required? 62-701.500(7)(a)	X			
2.18	Are the working face and side slopes above ground graded to a slope no greater than 3 ft. horizontal to 1 ft. vertical rise? 62-701.500(7)(c)	X			

LANDFILL OPERATION AND MAINTENANCE (continued)		OK	Not OK	Unk	N/A
2.19	Is a narrow working face practiced? 62-701.500(7)(d)	X			
2.20	Is the frequency, amount and quality of initial cover, as required? 62-701.500(7)(e)	X			
2.21	Is the frequency, amount and quality of intermediate cover, as required? 62-701.500(7)(f)	X			
2.22	Is litter controlled and are litter control devices maintained? 62-701.500(7)(i) and (11)(f)	X			
2.23	Is erosion control adequate? 62-701.500(7)(j)	X			
2.24	Is the leachate collection and removal system maintained and operated as required? 62-701.500(2)(j), 62-701.500(8)(b) & (h)	X			
2.25	Is leachate disposed of or treated as required? 62-701.500(8)(b), (c) and (d)	X			
2.26	If leachate recirculation is practiced at the facility, is it done in accordance with Department requirements and the Operation Plan? 62-701.400(5)				X
2.27	Is gas controlled to not cause objectionable odors beyond the property boundary? 62-701.530(3)(b)	X			
2.28	Is gas controlled to not allow combustible gas concentrations to exceed specified limits? 62-701.530(3)(a)	X			
2.29	Are gas vents intact and functioning properly? 62-701.500(9) & 62-701.530(1)(a)3.	X			
2.30	Is mixing of leachate and stormwater prevented or minimized? 62-701.500(10) & 62-701.400(9)(c)	X			
2.31	Is stormwater management system maintained and operated as required? 62-701.500(10)	X			
2.32	Is there sufficient operating equipment? 62-701.500(11)(a)	X			
2.33	Is there sufficient reserve equipment (or other arrangements)? 62-701.500(11)(b)	X			
2.34	Are communication facilities adequate? 62-701.500(11)(c)	X			
2.35	Are approved dust control methods adequate? 62-701.500(11)(d)	X			
2.36	Are fire protection and fire fighting capabilities adequate and operational? 62-701.500(11)(e)	X			
2.37	Are there required signs for operational directions and public information? 62-701.500(11)(g)	X			
2.38	Are all-weather access roads and inside perimeter roads properly maintained? 62-701.500(12)	X			
2.39	Are ground water wells intact and properly maintained? 62-701.510(2)(b), 62-701.620(9)	X			
2.40	Are all specific conditions in the permit being followed? 62-701.320(1)	X			

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
INSPECTION CHECKLIST**

SECTION 14.0 – NARRATIVE AND SIGNATURES

REQUIREMENTS:

THIS SECTION PROVIDES AN OPPORTUNITY FOR THE DEPARTMENT INSPECTOR TO ADD A NARRATIVE EXPLAINING ANY REQUIREMENTS IDENTIFIED AS "NOT OK" AT THE TIME OF THE INSPECTION. SOME REQUIREMENTS MAY BE IDENTIFIED AS "OK" BUT ARE DISCUSSED FURTHER IN THE "AREAS OF CONCERN" PORTION OF THE NARRATIVE SECTION.

14.1 Explanation for all "NOT OK" responses (continue on separate sheet if necessary).

NA

Other

Cell #3 is under construction..

Disposal is occurring in two areas.

14.2 Explanation for all "Areas of Concern" (continue on separate sheet if necessary).

4 sampling events have taken place; a biennial summary report is due at this time.

Several eroded areas on the west side of the landfill indicated that the erosion occurred more than a week prior to the inspection

During the inspection sod was being applied to the side slope.

Signed:

Randall Cunningham

/ 7/20/06

DEP Representative

Date

Received:

Site Representative

Date

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "NOT OK" or areas of concern.

ATTACHMENT 2

**NOTIFICATION LETTERS
TO LOCAL GOVERNMENT**

17 November 2006

Honorable Paul Owen, Chairman
Osceola County Board of County Commissioners
1 Courthouse Square, Suite 4700
Kissimmee, Florida 34741

Dear Chairman Owen:

On behalf of Omni Waste of Osceola County, LLC, I am sending you this letter to formally notify you that Omni has filed an application with the Florida Department of Environmental Protection (FDEP) for a permit to construct and operate Phases 2 and 3 of the existing Oak Hammock Disposal (OHD) facility in Osceola County. The OHD facility is an existing "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials) in Osceola County, approximately five miles south of Holopaw, on the west side of U.S. 441.

To comply with the requirements of Section 62-701.320(8), F.A.C., this notice is being provided to you and the County Commissioner for District 5 (i.e., the district in which the landfill is located). In addition, the notice of application (NOA) issued by FDEP was published in the Orlando Sentinel in September 2006. The NOA and its proof of publication are attached to this letter.

GeoSyntec is providing Omni with design, permitting, and other engineering services related to landfill. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,



Ayushman Gupta, P.E.
Senior Engineer

Attachment: NOA & proof of publication

Copy: Mr. Shawn McCash, WSI/Omni
Mr. Matt Orr, WSI/Omni
Mr. James Bradner, P.E., FDEP



Orlando Sentinel

Published Daily

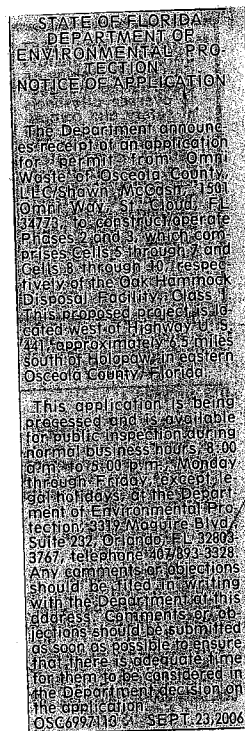
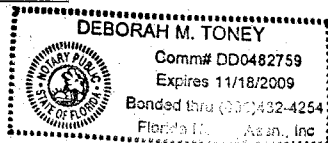
State of Florida } S.S.
COUNTY OF ORANGE

Before the undersigned authority personally appeared Rachael Washington, who on oath says that he/she is the Legal Advertising Representative of Orlando Sentinel, a daily newspaper published at KISSIMMEE in OSCEOLA County, Florida; that the attached copy of advertisement, being a STATE OF FLORIDA in the matter of Omni Waste in the OSCEOLA Court, was published in said newspaper in the issue; of 09/23/06

Affiant further says that the said Orlando Sentinel is a newspaper published at KISSIMMEE in said OSCEOLA County, Florida, and that the said newspaper has heretofore been continuously published in said OSCEOLA County, Florida, each Week Day and has been entered as second-class mail matter at the post office in KISSIMMEE in said OSCEOLA County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

The foregoing instrument was acknowledged before me this 27 day of September, 2006, by Rachael Washington, who is personally known to me and who did take an oath.

(SEAL)



7006 0810 0005 3814 8160

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PS Form 3800, June 2002 See Reverse for Instructions

17 November 2006

Honorable Bill Lane, Commissioner District 5
Osceola County Board of County Commissioners
1 Courthouse Square, Suite 4700
Kissimmee, Florida 34741

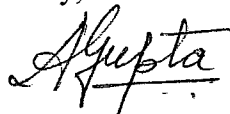
Dear Commissioner Lane:

On behalf of Omni Waste of Osceola County, LLC, I am sending you this letter to formally notify you that Omni has filed an application with the Florida Department of Environmental Protection (FDEP) for a permit to construct and operate Phases 2 and 3 of the existing Oak Hammock Disposal (OHD) facility in Osceola County. The OHD facility is an existing "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials) in Osceola County, approximately five miles south of Holopaw, on the west side of U.S. 441.

To comply with the requirements of Section 62-701.320(8), F.A.C., this notice is being provided to you and the Chairman of the Osceola County Board of County Commissioners. In addition, the notice of application (NOA) issued by FDEP was published in the Orlando Sentinel in September 2006. The NOA and its proof of publication are attached to this letter.

GeoSyntec is providing Omni with design, permitting, and other engineering services related to landfill. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,



Ayushman Gupta, P.E.
Senior Engineer

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Copy: Mr. Shawn McCash, WSI/Omni
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Orlando Sentinel

Published Daily

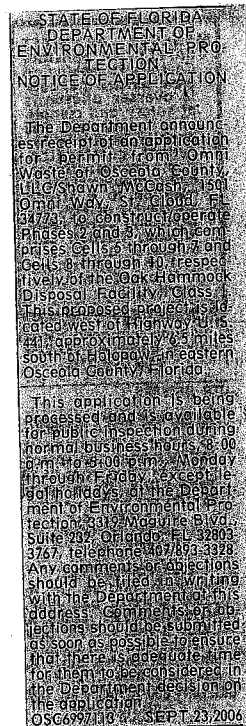
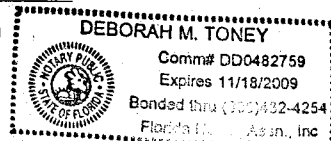
State of Florida } S.S.
COUNTY OF ORANGE

Before the undersigned authority personally appeared Rachael Washington, who on oath says that he/she is the Legal Advertising Representative of Orlando Sentinel, a daily newspaper published at KISSIMMEE in OSCEOLA County, Florida; that the attached copy of advertisement, being a STATE OF FLORIDA in the matter of Omni Waste in the OSCEOLA Court, was published in said newspaper in the issue; of 09/23/06

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The foregoing instrument was acknowledged before me this 27 day of September, 2006, by Rachael Washington who is personally known to me and who did take an oath.

(SEAL)



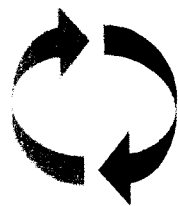
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PS Form 3800, June 2002 See Reverse for Instructions

ATTACHMENT 3

**UPDATED OPERATION PLAN
FOR THE OHD FACILITY**

Prepared for



Omni Waste

of Osceola County, LLC

1501 Omni Way
St. Cloud, FL 34773

OPERATION PLAN

OAK HAMMOCK DISPOSAL FACILITY

Prepared by

Geosyntec
consultants

engineers | scientists | innovators

14055 Riveredge Drive, Suite 300
Tampa, FL 33637

Project Number FL0916
November 2006

TABLE OF CONTENTS

1.	INTRODUCTION.....	1
1.1	Terms of Reference	1
1.2	Purpose and Scope of the Operation Plan	1
1.3	Operation Plan Organization	1
2.	LANDFILL PERSONNEL AND FACILITIES	3
2.1	Personnel Requirements	3
2.1.1	Numbers and Types.....	3
2.1.2	Employee Training.....	3
2.2	Landfill Entrance Procedures	4
2.2.1	Hours and Days of Operation.....	4
2.2.2	Processing Customers	4
2.2.3	Public Use	5
2.2.4	Vehicle Inspection Plan.....	6
2.3	Traffic Routing.....	6
2.3.1	Access Points/Signs.....	6
2.3.2	On-Site Traffic Flow	6
2.4	On-Site Structures	6
2.5	Communication Facilities	7
3.	LANDFILL OPERATIONS	8
3.1	Basic Landfilling Procedures	8
3.1.1	Method of Operations.....	8
3.1.2	Working Face Practices.....	9
3.1.2.1	Start-Up and First Lift.....	9
3.1.2.2	Subsequent Lifts	9
3.1.3	Filling Procedures	10
3.1.3.1	Width of Working Face.....	10
3.1.3.2	Unloading.....	11
3.1.3.3	Pushing, Spreading, and Compacting	11
3.1.3.4	Daily Clean-Up	11
3.1.4	Cover	12
3.1.4.1	Stockpiling	12
3.1.4.2	Application and Phasing of Cover Materials	12
3.2	Equipment	12
3.2.1	Primary Equipment	12

3.2.2	Back-Up Equipment.....	13
3.2.3	Support Equipment.....	13
3.2.4	Equipment Care.....	13
3.3	Roads.....	14
3.3.1	Road Construction.....	14
3.3.2	Maintenance of Roads.....	14
3.3.2.1	Filling of Potholes.....	14
3.3.2.2	Grading.....	14
3.3.2.3	Restoring Settlement.....	14
3.3.2.4	Cleaning of Public Access Roads.....	15
3.3.2.5	Removal of Materials from Landfill Roadways.....	15
3.3.2.6	Maintenance Drainage Swales.....	15
3.4	Drainage Features.....	15
3.5	Salvaging/Recycling.....	16
4.	ENVIRONMENTAL CONTROLS.....	17
4.1	Environmental Control Systems.....	17
4.1.1	Leachate Containment and Control.....	17
4.1.2	Surface-Water Controls.....	17
4.2	Facility Inspection Plan.....	18
4.2.1	Leachate Collection System (LCS).....	18
4.2.2	Leachate Storage Facility.....	18
4.2.3	Surface-Water Control System.....	18
4.2.4	Landfill Cover System.....	19
4.2.5	Facility Inspection Schedule.....	19
4.3	Facility Maintenance Plan.....	20
4.3.1	Leachate Collection System.....	20
4.3.2	Surface-Water Control System.....	20
4.3.3	Final Cover Maintenance.....	20
4.4	Water Quality Monitoring Plan.....	21
4.5	Landfill Gas Monitoring Plan.....	21
4.5.1	Monitoring of On-Site Buildings.....	21
4.5.2	Monitoring for Landfill Gas Along Perimeter Berm.....	22
4.5.3	Monitoring for Objectionable Odors at the Property Boundary.....	22
4.5.4	Detecting Exceedances of the Regulations.....	22
4.6	Landfill Active Area Controls.....	23
4.6.1	Litter Control.....	23
4.6.1.1	Prevention of Litter on the Working Face.....	23
4.6.1.2	Control of Litter with Litter Fences.....	23
4.6.2	Buffer Maintenance.....	23

4.6.3	Dust Control	24
4.6.4	Vector Control	24
4.6.5	Noise Control	24
4.6.6	Record keeping	25
5.	EMERGENCY CONTINGENCY PLAN	27
5.1	Introduction	27
5.2	Fire Control Plan	27
5.2.1	When Fire Occurs	27
5.2.2	"Hot Load" Procedures	28
5.2.3	Fire Extinguishers and First Aid Kits	29
5.3	Accident or Injury	29
5.3.1	When an Injury Occurs	29
5.3.2	Procedures After an Accident	30
5.4	Release of Contamination to Environment (Remedial Response)	31
5.4.1	Response	31
5.4.2	Follow-Up	31
5.5	Hazardous or Other Unauthorized Materials	32
5.5.1	The Observer	32
5.5.2	Landfill Site Manager	33
5.5.3	Non-Discharged Load	33
5.6	Uncooperative Customers	33
5.7	Inclement Weather	34
5.7.1	Operation in Wet Weather	34
5.7.2	Preparation for Inclement Weather	35
5.7.3	Preparation for Severe Weather or Hurricanes	35
5.8	Problems Affecting the Leachate Collection and Removal Systems	36
5.8.1	Interruption of Power Service to the Landfill	36
5.8.2	Interruption of Flow to Primary Containment Tanks	37
5.8.3	Primary Leachate Sump Alarm Level Switch	37
5.8.4	Managing Hazardous Leachate	37
6.	SAFETY PLAN	38
6.1	Emergency Procedures	38
6.2	General Safety Practices	38
6.3	Safety Equipment	39
6.4	Site User Rules	39
7.	FINAL CLOSURE	41
7.1	Introduction	41

7.2	Final Cover System Components	41
7.3	Seeding and Planting	42
7.4	Erosion Minimization	42
7.5	Drainage	42
8.	BORROW AREA OPERATIONS	43
8.1	Overview	43
8.2	Wet Excavation	43
8.3	Dry Excavation	44

LIST OF TABLES

Table 1.	Personnel Requirements	45
Table 2.	Heavy Equipment Requirements	46
Table 3.	Heavy Equipment Rental Companies	47
Table 4.	Operator Protective Equipment	48

APPENDICES

APPENDIX A: TRAINING PLAN

APPENDIX B: WASTE INSPECTION PLAN

APPENDIX C: EMERGENCY RESPONSE AGENCIES

1. INTRODUCTION

1.1 Terms of Reference

This Operation Plan has been prepared by GeoSyntec Consultants (GeoSyntec) on behalf of Omni Waste of Osceola County, LLC (Omni) for a Class I landfill known as the Oak Hammock Disposal (OHD) facility. The Operation Plan for the OHD facility has been prepared to comply with the requirements of Chapter 62-701 of the Florida Administrative Code (FAC).

1.2 Purpose and Scope of the Operation Plan

The Operation Plan provides a detailed description of the daily operations of the Class I landfill at the OHD facility, including contingency operations as required by Sections 62-701.320(7)(e)(1,2), and 62-701.500 of the FAC. The primary purpose of the Operation Plan is to describe the framework to operate and manage the OHD Class I landfill so that the landfill is operated and maintained in a condition that protects the public health and the environment. This Operation Plan also provides a description of borrow area operations for obtaining fill material during both the construction and operation phases of the landfill.

1.3 Operation Plan Organization

The organization of the Operation Plan is described below:

- Section 2 describes personnel requirements, landfill entrance procedures, traffic routing, and facilities for the Class I landfill;
- Section 3 discusses landfill operations including basic landfilling procedures, waste handling, waste relocation, equipment, on-site roads, and general maintenance procedures for drainage swales;
- Section 4 discusses environmental controls including leachate containment and control, surface-water control, facility inspection, maintenance, monitoring, landfill active area controls, and record keeping;
- Section 5 describes the contingency plan for emergencies at the site;
- Section 6 describes the safety plan for the site;

- Section 7 discusses final closure of the OHD landfill;
- Section 8 describes operation of the borrow area.

2. LANDFILL PERSONNEL AND FACILITIES

2.1 Personnel Requirements

2.1.1 Numbers and Types

The positions and number of personnel anticipated to be employed for each position are presented in Table 1. Omni will have at least one trained operator at the landfill during active operations and at least one trained spotter at each working face. The operator and the spotter may be the same person. The staffing levels presented in Table 1 provide for absences due to vacation, illness, holidays, or other reasons. Peak solid waste receipt periods, or other emergency conditions may require additional personnel and/or staff working overtime. These staffing levels are based on the assumption that work activities will generally take place 10 hours per day, 5 days per week and a half day on Saturday.

If the daily volume at the landfill increases enough to require additional equipment, the staff will be increased as required to supply the personnel to operate and maintain the additional equipment. The minimum crew required to operate the landfill for receipt of waste is also presented in Table 1. In addition to the permanent staff, casual labor may be hired for area clean-up, ground maintenance, and other intermittent activities as required.

2.1.2 Employee Training

Employees of the landfill will receive initial training courses, approved by FDEP, and on-the-job training in the safe and environmentally secure operation of the landfill. Employees will also receive the appropriate continuing education training every three years to comply with the certification requirements. All certified training (initial and continuing education) will be provided by FDEP-approved, qualified, independent third party. Omni will maintain training records for current employees at the facility. The requirements of the training program will also be documented in writing. Examples of subjects to be covered in the employee training program include the following:

- overview of this Operation Plan;
- review of permits and regulations for operators and other key personnel;
- general landfill safety procedures pertaining to work around solid waste, landfill gases, and leachate;

- instruction in the operation and maintenance of equipment, machinery, and systems which the employee must operate, service, or monitor during his/her daily job duties;
- instruction in emergency response procedures for landfill fires or explosions, leachate pumping system failure or leaks, or other emergency situations;
- instruction in emergency shutdown procedures; and
- appropriate procedures for spotters and equipment operators, scale masters and other key personnel including recognition of hazardous wastes and reporting procedures for discovery of unauthorized wastes.

A list of trained spotters and operators at the OHD facility and a list and schedule of the classes offered to the public, which may be attended by the OHD facility's operators and spotters, is presented in Appendix A.

2.2 Landfill Entrance Procedures

2.2.1 Hours and Days of Operation

The landfill may be open to accept and dispose of solid waste from dawn to dusk, or 10 hours per day, whichever is greater. Typical landfill hours for acceptance of waste are:

Monday through Friday: 7:00 am to 6:00 pm

Saturday: 8:00 am to 12:00 Noon

Construction, daily cell preparation, hauling/excavating, road building, leachate management, or all non-disposal waste acceptance can be performed both within and outside of the posted operating hours. The actual hours of operation will be posted at the main entrance to the landfill. The landfill may be closed on Sundays and the following holidays:

Thanksgiving

Christmas

New Year's Day

2.2.2 Processing Customers

Upon entering the site, all landfill users entering the disposal area will be required to stop at the weigh station. The scale master will record the weight and type of waste for each waste load brought to the landfill. All waste loads will be visually inspected for hazardous or other unauthorized wastes in accordance with the waste inspection plan, which is presented in Appendix B. A load-checking program will be used at the landfill to detect and discourage

attempts to dispose of unauthorized wastes at the landfill. The load checking program consists of the following:

- The Landfill Site Manager is to examine at least three random loads each week. The selected waste hauling vehicles are to be directed to discharge their loads at a designated location within the landfill for a detailed inspection of the discharged material for any hazardous waste.
- If any regulated hazardous wastes are identified by the random load inspection or otherwise discovered to be improperly deposited at the landfill, the Landfill Site Manager will promptly notify FDEP, and if known the person responsible for shipping the wastes to the landfill, and the generator of the wastes. The area where the hazardous wastes are found will be immediately cordoned off from public access and properly removed from the designated location/work face. If the generator or hauler cannot be identified, the landfill operator will assure the cleanup, transportation, and disposal of the waste at a permitted hazardous waste management facility.
- A record of information and observations gathered during each random waste load inspection will be maintained. This documentation will include: the date and time of inspection; load weight; names of the hauling firm and driver of the vehicle; vehicle license plate number; source of waste as indicated by the driver; and observations made by the inspector during the detailed inspection. The responsible inspector will sign each waste inspection record. The random waste load inspection documentation will be maintained at the landfill for a period of at least three years.

Vehicles will be directed to the appropriate disposal area by signs or other means. Verbal instructions will be given by facility personnel when necessary. The appropriate area depends on whether the waste is typical municipal solid waste, yard waste, white goods, used tires, or waste that should be placed in a particular location for special handling.

2.2.3 Public Use

Small, private vehicles will be directed to place their load in the appropriate disposal area by the scale master. Private vehicles will typically be directed to unload in two 20-yard roll-off containers located in the administrative area. However, private vehicles with a dump trailer will be directed to the landfill. These vehicles will be directed to unload in an area away from the commercial waste trucks and will be assisted to unload and return as quickly as practical.

2.2.4 Vehicle Inspection

A plan will be implemented by the Landfill Site Manager to prevent the on-site disposal of unauthorized wastes. A copy of the Waste Inspection Plan prepared for the Class I landfill is presented in Appendix A. This plan will be implemented by the Landfill Site Manager or designee to prevent the on-site disposal of unauthorized wastes.

The Landfill Site Manager or designee (Inspector) will be in charge of inspecting waste vehicles arriving at the site. The Inspectors will receive training in unauthorized waste identification. The training provides the opportunity to improve the inspector's knowledge and ability to effectively screen incoming waste.

2.3 Traffic Routing

2.3.1 Access Points/Signs

Access by all vehicles shall be via a single secured site entrance located on highway US 441. The entrance will allow for safe and orderly traffic flow into and out of the facility. The site entrance gate will be locked outside of operation hours.

Signs will be posted at the site entrance indicating the name of the facility, name of the operating authority, and hours and days of operation. In addition, a sign which clearly states "NO HAZARDOUS WASTES ACCEPTED" will be located at the entrance to the landfill. Traffic control and safety requirement signs will be located at and near the entrance to the facility as required.

2.3.2 On-Site Traffic Flow

Once vehicles delivering wastes have been weighed, they will follow directions or signs posted along the haul road(s) to the current active work areas of the landfill. Trucks will then proceed to deposit their loads at the appropriate working face. Signs or the scale master will direct small public vehicles to deposit their loads in the appropriate disposal area.

2.4 On-Site Structures

The site includes the following structures:

- office building/ticket office/weigh station;
- scales; and

- storage area.

2.5 Communication Facilities

The following communication facilities will be provided for routine communication and for use in emergencies at the site:

- cellular and/or conventional telephone in the office building; and
- on-site two-way radios.

3. LANDFILL OPERATIONS

3.1 Basic Landfilling Procedures

This section describes the procedures that constitute the daily landfill operations, the sequence of landfilling, working face practices, and control of the first and subsequent lifts. The landfill will be operated in accordance with these procedures and filled in the general sequence as indicated on the Permit Drawings.

3.1.1 Method of Operations

Landfilling areas will generally progress from north to south and from west to east. When a cell is opened, waste lifts will be placed to cover all areas to a depth of 10 feet to reduce leachate generation prior to placement to higher elevations in a cell.

Controlling truck routes and properly spotting loads will facilitate the spreading, compaction, and covering of refuse. During construction of the first lift, trucks will be positioned on a lift of previously compacted waste adjacent to the first lift being placed. In subsequent lifts, unloading at the toe of the working face and pushing uphill may be the preferred method. Lateral confinement or small work faces will be maintained to avoid wasting soil cover material. Temporary barricades or flags may be used as daily width markers for guiding equipment operators and for traffic control.

Vehicles transporting refuse and cover material to the working face will be routed over previously filled areas, whenever possible, for additional compaction of refuse and soil. Vehicles will not be routed over areas of the final cover system unless on a road specifically designed for hauling waste. Disposal vehicles will not be routed over a lined area before a lift of waste has been placed, in order to prevent damage to the liner.

Signs will also be posted in the operational areas if and when required. These signs will direct traffic, identify buildings, and specify types of material to be deposited in particular areas. Safety signs will also be posted to identify certain safety requirements such as no smoking, speed limits, and stop signs.

The refuse may consist of household and commercial wastes, construction, demolition debris, and other similar materials, as allowed by regulations for Class I landfills. These readily compactable wastes lend themselves to the typical operations described in Sections 3.1.2 and 3.1.3.

3.1.2 Working Face Practices

3.1.2.1 Start-Up and First Lift

To assure protection of the landfill liner system, no disposal vehicles will be operated directly on the liner protective cover. Soil platforms or similar protective measures will be placed adjacent to the working face to keep vehicles off the liner protective cover. Landfill personnel will be positioned at the working face for the start-up of each new area to direct vehicles to their unloading points.

The first lift of waste on the liner protective cover will be placed with great care, using special methods to protect the liner from damage. The first lift of waste will be a minimum of 4 feet in compacted thickness and consist of select wastes containing no large rigid objects that may damage the liner or leachate collection system. Equipment will not be allowed on the liner protective cover and equipment will not spread waste in a manner that displaces the liner protective cover soil. Landfill personnel will closely monitor the placement, compaction, and covering of the first layer of waste. Landfill personnel will maintain grade control and inspect the filling techniques. Inadvertent damage or suspected damage to the liner system will be reported to the Landfill Site Manager and restored prior to filling in the damaged area.

To protect the liner system, the bulldozer will normally be used as the primary spreading and compacting machine for the first lift. The compactor will only be operated on top of the waste and not on the landfill base or on the waste sideslopes. The equipment operators will also make sure that no bulky waste or other material, which could damage the liner system is placed within the first lift.

3.1.2.2 Subsequent Lifts

After the first lift is properly in place, normal operating procedures will be used for the second lift and all subsequent lifts. Trucks and compactors are permitted to operate on these lifts. Bulky wastes delivered to the facility and any stockpiled bulky wastes received during construction of the first lift will be placed in subsequent lifts. The daily operating procedures including routing of traffic, placement, spreading and compaction of refuse, and application of initial and/or intermediate cover will be followed for the subsequent lifts of waste. Soil erosion control and site maintenance tasks will be implemented throughout the development of all lifts. Once the final landfill elevations have been reached over a suitably sized area, final cover will be applied to the landfill during the next construction season and vegetated during the customary planting season.

At the end of each working day, initial cover material (e.g., soil or alternate material) will be applied. A loader and truck or a scraper can be used to load and haul soil from the stockpile area to the working face where it will be temporarily stockpiled or spread directly over the waste. Intermediate cover will be applied on areas that will be exposed for more than 180 days (i.e., outside sideslopes and the top of the final lift or portions of other lifts not soon to be covered by additional refuse.) An alternative to the soil, which is used as initial cover may consist of foundry sand, foam, a fabric blanket, or other approved material.

Material from on-site stockpile or borrow areas will be used to supply initial and intermediate cover requirements. To conserve soils and landfill space, the initial and intermediate cover will be scraped back immediately before placement of additional solid waste on top of the lift, and then reused as cover material if appropriate, or will be incorporated into the working face. Initial and intermediate cover will be graded to drain away from the active work area.

3.1.3 Filling Procedures

After the first lift, waste materials will be placed in 2-ft thick horizontal layers when possible and compacted to approximately 1-ft thickness or as thin a layer as practical before the next lift is applied.

The refuse cell is the basic building block of a landfill. It is composed of multiple compacted layers of waste and enclosed by cover material (i.e., initial, intermediate and/or final cover). Basic instructions for constructing the refuse cell are outlined below.

3.1.3.1 Width of Working Face

The working face is the portion of the uncompleted cell on which additional waste is spread and compacted. To maintain sanitary operation, the working face will be kept as narrow as possible. By keeping the working face narrow, equipment movement, cover material requirements, and the area of exposed waste is minimized. In order to facilitate proper unloading and waste placement operations, two working faces may be required from time to time.

The optimal daily working face width will vary depending on the number of vehicles bringing waste to the site. The working face will be wide enough to prevent a large backlog of trucks. It is expected that a working face 150 to 200 ft (46 to 61 m) in width will be sufficient for operation of the OHD landfill.

3.1.3.2 Unloading

When unloading waste from top of the refuse cell, the waste will be discharged as close to the edge of the active working face as safe operations permit and pushed down slope. For safety reasons, a minimum 8 to 10 ft separation will be maintained between the refuse trucks and the landfill equipment.

When unloading waste from the bottom of the refuse cell, the waste will be discharged approximately 10 ft from the toe of the working face and pushed up the slope. Truck and landfill equipment separation, as discussed above, will be maintained. In order to prevent loads of waste from being discharged too far away from the toe, refuse trucks can be backed toward the toe, following a path created by the equipment pushing refuse into the working face.

3.1.3.3 Pushing, Spreading, and Compacting

Proper refuse cell construction involves pushing, spreading, and compacting the waste. These functions will be accomplished with a bulldozer and/or a compactor.

Pushing the waste is the action of moving the waste from the discharge location into the working face. This function will be accomplished with a bulldozer and/or compactor.

Spreading of the waste can be done by either a bulldozer or compactor. The purpose of the spreading action is to distribute the waste over the working face in a thin layer (approximately 2 ft thick). High in-place compacted unit weight of the waste is achieved by compacting in thin layers (i.e., 2 ft thick).

Good compaction is achieved by operating the landfill compactor up and down the working face after the refuse has been spread into a thin layer. Proper compaction of the waste will extend landfill life, while reducing litter and vector problems. To maximize compaction of the waste, the working face and inside temporary slopes will not exceed a maximum slope of 3H:1V. The Landfill Site Manager will periodically verify the compaction procedures and make corrections as necessary.

3.1.3.4 Daily Clean-Up

The area receiving wastes will be policed daily for loose waste and litter. Such waste, as well as litter along the litter fences, will be removed. The litter may be stored in trash bags until it can be deposited in the landfill.

3.1.4 Cover

3.1.4.1 Stockpiling

Cover soil stockpile locations, if needed, will change throughout the life of the landfill depending on site conditions and the location of the active working face. Landfill equipment will begin pushing or spreading the cover over the active cell area when and where it has reached its limit for the day.

A minimum of a three-week supply of acceptable initial cover will be maintained at the landfill and be available at all times. All stockpiles will be graded to minimize erosion potential. Silt fences or diversion berms will be utilized to control erosion.

3.1.4.2 Application and Phasing of Cover Materials

A 6 in. (150 mm) thick initial earth cover will be placed on top of all exposed waste on the working face, at the end of each day's operation. Alternative materials and layer thickness may be submitted for FDEP approval. If additional waste is to be deposited on the working face within 18 hours, the initial cover may consist of a temporary cover, such as a tarpaulin, that may be removed prior to the placement of additional waste.

A 12-in. (300-mm) thick intermediate earth cover will be placed over the initial cover within 7 days of completion of an area if no additional solid waste will be deposited within 180 days.

Final cover will be placed over the areas of the landfill that have reached final design elevations. Final cover will be placed within 180 days of reaching the final design elevations. The final cover system will be as described in Section 7 of this Operation Plan. Vegetation will be maintained over the final cover areas throughout the life of the landfill and the post closure care period. Maintenance of the final cover swales, and access roads will also be performed throughout the life of the landfill and the post closure care period.

3.2 Equipment

3.2.1 Primary Equipment

Based on the available range of handling capacities and the initial projected waste receipts, the allocation of heavy, primary equipment presented in Table 2 will be sufficient to handle the wastes received at the landfill. The primary functions of heavy landfill equipment are spreading and compacting solid waste, and excavating, hauling, and spreading cover material. Equipment similarities allow different equipment to perform functions as necessary.

For example, when a compactor breaks down, a bulldozer can perform the compaction operation.

3.2.2 Back-Up Equipment

The equipment selection guide indicated in Table 2 will be adequate even if one of the pieces of equipment is temporarily out of service. If a piece of equipment is out of service for an extended period or if additional equipment is required on a temporary basis, this equipment is available for rental from several heavy equipment rental companies listed in Table 3.

3.2.3 Support Equipment

In addition to the heavy equipment used for operating and maintaining the landfill, other support equipment may be used to perform work not essential to the operations. This equipment will be present at the site most of the time, but some may be off-site, temporarily out of service, or rented for a specific occasion.

One 3,000 gallon or larger portable water storage tank will remain on site at all times and will be used for dust control and fire protection. The storage tank will be truck-mounted on either a tilt frame or roll-off container hoist, depending on vehicle availability. The storage tank will normally be positioned close to the working face for fire protection. However, it will also be equipped with spray bars so it can be used for dust control.

A utility tractor will be used to perform site maintenance activities. It will be fitted with attachments for mowing grassed areas. A backhoe or small excavator will assist the small dozer in maintaining drainage courses and ditches and for other site maintenance activities.

Pumps will be used for filling the portable water storage tank. These pumps will also be used to dewater any ponded water that forms in low areas around the site, including roads and lined landfill areas not in use.

3.2.4 Equipment Care

Routine preventive maintenance will minimize equipment downtime and increase equipment service life.

Preventive maintenance varies with each piece of equipment. Therefore, the operation and maintenance (owner's) manual for each should be consulted. However, three applicable maintenance activities, which will be implemented at the site are:

- establish a routine equipment inspection program;

- lubricate according to manufacturer's recommendations; and
- keep maintenance records.

3.3 Roads

3.3.1 Road Construction

The main access road from the site entrance area to the scale house will initially be an improved, all weather, rock/recycled concrete surfaced road. The main access road will be paved within the next construction season after the site reaches and maintains 1,000 tons/day average for 30 consecutive working days. Haul roads will be constructed from the scale house to the active work area in the landfill. The haul roads will be improved, all weather, rock/recycled concrete surfaced. A perimeter maintenance road will provide all weather access to leachate management systems, groundwater monitoring wells, landfill gas monitoring wells, and storm water management structures. The perimeter maintenance road will be surfaced with limerock or recycled crushed concrete. In the active work area, the roads will be surfaced with construction/demolition waste or other acceptable waste.

3.3.2 Maintenance of Roads

3.3.2.1 Filling of Potholes

Potholes will be filled with materials compatible with the road construction material. Potholes will be filled on a routine basis so that they are not allowed to remain open for extended periods. Before placing patches in holes, all loose material will be removed from the hole. New material will then be placed in the hole and compacted so that it will be approximately as dense as the materials originally used in the road.

3.3.2.2 Grading

As unpaved, all-weather roads become uneven due to traffic-caused rutting or displacement of stone, fresh rock or recycled crushed concrete will be applied to the surface and smoothed to an evenly sloped grade to promote drainage.

3.3.2.3 Restoring Settlement

When all-weather roads are built on fill areas, settlement of the filled area may cause cracks to appear in a road or cause the slope of a road to change. Cracks will be filled with material that is compatible with the roadbed. Areas of a sloped road, where the slope has changed drastically, will be built up with material compatible with the roadway. The buildup

will be made by placing a 6 in. thick layer of the material, compacting it, then placing another 6 in. thick layer of material and compacting again. This process will be repeated until the desired elevation is achieved or the road section will be rebuilt.

3.3.2.4 Cleaning of Public Access Roads

Proper operation of the landfill will result in little or no debris being found on public roads. The public roads adjacent to the site entrance area will be inspected daily. If debris from the wheels of vehicles departing the landfill reaches the public access road at the entrance to the landfill, that road will be cleaned to a distance of 0.25 mi (0.4 km) or as required in both directions, if necessary, from the entry point onto the road.

3.3.2.5 Removal of Materials from Landfill Roadways

Any significant accumulation of dirt, brush, and other debris will be removed from the landfill roadways. Dirt left on asphalt roadbeds may cause dust problems during dry weather or mud problems during wet weather. A program of road cleaning will be implemented to prevent any buildup. Unpaved roads will be watered as needed to minimize dust.

3.3.2.6 Maintenance of Drainage Swales

Drainage swales along road beds will be kept free of obstructions. During the wet weather seasons, inspection of all drainage ditches and structures will be made at least once each week, or more frequently as required, and debris removed as required.

3.4 Drainage Features

- Routine Inspections: Inspection procedures are outlined in Section 4.2.3.
- Channels, Pipes, and Inlet Structures: Drainage structures will be cleaned of debris as soon as practical after problems are identified to prevent ponding. When unlined channels silt up, routine cleaning will be performed to restore the original capacity of the channels.
- Repair of Structures: Damaged structures will be permanently repaired during dry weather periods. During rainy periods, temporary repairs may be made to prevent further damage to the structure or erosion of soil.
- Sediment Barriers: Sediment barriers will be visually inspected periodically for damage, and to determine if sediment has accumulated behind them. Sediment will not be allowed to accumulate to a height exceeding half that of the barrier.

Barriers will be replaced when visibly damaged. Barrier footings will also be inspected to ensure that drainage is not flowing beneath the barrier unless designed to do so.

3.5 Salvaging/Recycling

No scavenging will be permitted at the landfill. However, if the volume of recyclable goods is sufficient, as determined by the Landfill Site Manager, those items may be separated from the waste which is to be disposed.

4. ENVIRONMENTAL CONTROLS

This section presents the basic components of the environmental controls at the OHD Class I landfill. The major components of this section are the Facility Inspection Plan, Facility Maintenance Plan, and the Facility Monitoring Plan. In this section, a discussion of each of these components is presented, including a discussion of groundwater and surface-water protection controls, leachate collection system (LCS), and surface water controls, where appropriate. The discussion also includes general facility controls, including initial, intermediate and final cover, and access roads.

4.1 Environmental Control Systems

The purpose and function of each of the major environmental control systems are described below. Specific construction and design details are presented in the construction documents, the closure plan, post-closure plan, and the design report with attached plans.

4.1.1 Leachate Containment and Control

The Class I landfill is equipped with a double-composite liner system, which directs any liquid entering the landfill that may have contacted refuse to an LCS. The LCS drains liquid collected on the primary liner into a sump. Leachate in the sump is pumped into an on-site storage facility and trucked to a wastewater treatment plant (WWTP) periodically. Quantities of leachate collected by the LCS will be recorded in gallons per day and maintained as part of the landfill operating record.

A recording rain gauge will be installed, operated, and maintained to record precipitation at the landfill. Precipitation records will be maintained as part of the landfill operating record and used to compare with leachate generation rates.

4.1.2 Surface Water Controls

The surface-water management system for the OHD facility consists of a system of drainage swales to move storm water to either permanent dry retention basins or interim dry retention basin, depending on the stage of landfill construction. All dry retention basins are surrounded by an earth berm designed to contain all runoff from a 100-year storm event. Where runoff must pass through a roadway, appropriately sized culverts will be installed.

4.2 Facility Inspection Plan

4.2.1 Leachate Collection System (LCS)

The LCS will be water pressure cleaned or inspected using a video camera after construction but prior to placement of any waste. The pump(s) will be tested in the sump to assure that the system operates properly. Deficiencies will be repaired prior to initial deposition of waste.

The LCS includes manholes, pumps, a leachate wet well and a force main. The LCS pumps will be removed and inspected every 2 years. This 2-year inspection will consist of pressure testing of the pump. Pumps located in active areas, or areas without final cover, will be inspected on a monthly basis to confirm normal operation. Additional inspection, preventative maintenance, and checking of the electrical components will be performed in a manner and frequency in accordance with manufacturer's recommendations. The leachate transmission manholes will be inspected weekly for accumulation of leachate in the manhole and to verify integrity of the force main.

4.2.2 Leachate Storage Facility

The exposed exterior of the polyethylene leachate storage containers or steel tanks will be inspected weekly for leaks, deterioration, and maintenance deficiencies. The overflow control equipment will also be inspected weekly to ensure it is in good working order.

If inspection reveals a storage container or equipment deficiency, leak, or any other deficiency that could result in failure of the storage system to contain the leachate, remedial measures will be taken immediately to eliminate the leak or correct the deficiency. Inspection reports will be maintained and made available to FDEP upon request for the lifetime of the leachate storage facility.

4.2.3 Surface Water Control System

Surface-water culverts may contain landfill gas. Prior to accessing piping, protective measures will be taken to avoid explosion(s), fire(s), and asphyxiation(s).

Drainage swales, inlets, structures, and the surface-water management areas will be visually inspected monthly or following storm events. The frequency of dry inspections may be modified as appropriate based on progressive experience with the landfill drainage system, however, in no case will inspections be less frequent than quarterly. Regardless of the inspection frequency, the system will be inspected following each twenty-five year storm event (i.e., 9 inches of rain in 24 hour period) or greater storm event.

Drainage swales, inlets, and structures will be cleared of obstructing debris as soon as practical after a problem is identified. If channels become filled with an accumulation of debris or soil, cleaning may be required to restore original flow capacity.

Erosion control measures will be employed to correct any erosion that exposes waste or causes malfunction of the storm water management system. The control measures to repair erosion will be implemented within three days of occurrence. If the erosion cannot be corrected within seven days of the occurrence, a proposed correction schedule will be provided to FDEP.

4.2.4 Landfill Cover System

Areas that have received intermediate or final cover will be visually inspected periodically for signs of erosion, cracks and depressions due to settlement, and leachate seeps. Areas where waste or geosynthetics have been exposed by erosion will be filled and regraded to minimize any subsequent erosion. Significant depressions (1 ft or more) will be filled with soil, compacted, and regraded to promote positive drainage. If leachate seeps appear in the uncapped area of the landfill, the seep area will be excavated and backfilled with highly permeable material to promote seepage through the landfill. The intermediate cover will be reworked to seal the area.

4.2.5 Facility Inspection Schedule

Weekly	Exterior of HDPE leachate storage containers and overfill control equipment
Monthly (Visual)	Leachate collection pumps Surface-water management system Cover in completed areas Leachate force main
Quarterly	Surface-water control system (or after a 25 year storm event)
Annually	Surface-water control system pipes and structures Topographic survey of landfill
Bi-Annually (every 2 years)	LCS pumps and pipelines Leachate collection and detection flow meters, valves, and risers

4.3 Facility Maintenance Plan

In conjunction with the inspection plan, a regular schedule of maintenance will be prepared and implemented. This section refers specifically to the maintenance of the environmental controls installed at the landfill. It does not include the regularly scheduled maintenance of landfill roads or equipment such as vehicles, scales, or buildings. Maintenance requirements in this section refer primarily to the mechanical equipment associated with environmental controls. In addition, each piece of equipment will be inspected and maintained in accordance with all manufacturers recommendations.

4.3.1 Leachate Collection System

The electrical controls, pumps, flow meters, valves, and couplings will be maintained on at least a bi-annual basis (i.e., every two years). In addition, parts that tend to wear out on a regular basis, including bearings on pumps, seals, and gaskets, will be replaced during regular maintenance. After replacing maintained parts, the equipment will be tested to assure proper performance.

4.3.2 Surface-Water Control System

The surface-water control system does not include mechanical systems that require regular maintenance, however, the system is to be inspected on a monthly basis or following storm events. The swales, drainage structures, inlets, and pipelines will be repaired and maintained as soon as practical following identification of any damage or deficiencies. This includes repair of lined and unlined ditches in the active landfilling areas, on intermediate and final cover and diversion ditches around the landfill.

4.3.3 Final Cover Maintenance

Maintenance of the final cover includes all the components of the cap, i.e., the geomembrane, drainage geocomposite, protective soil layer and vegetation. The periodic inspections will help in assessing the final cover condition to verify the integrity of the cap (e.g., check for cracking of protective cover layer due to differential settlement or erosion and exposure of cover geomembrane/geocomposite), and the condition of the vegetation.

Areas of ponding or substantial differential settlement (1ft or more) will be checked to determine the cause. If a significant problem with the cover, vegetation, perimeter berms, erosion, or drainage structures is identified, work orders will be issued to correct the problems. Repair work shall be initiated as quickly as possible.

The timing of the repairs will be dependent on the nature of the repair. Minor filling to eliminate ponding, and the reseeding and fertilizing disturbed or problem areas will be accomplished with little delay. Major repairs, such as extreme erosion, significant local instability of slopes, or substantial settlement, might require geotechnical evaluation and design prior to implementing final repairs. In some cases, the need for analysis and design of the severely damaged areas will delay repair activities.

If repairs are necessary to the cover system swales, inlets, or downdrains to correct the runoff containment system deficiencies, the repairs will be undertaken prior to start of the wet weather season.

Repair of damages to the cover system resulting from erosion and differential settlement may include locally removing geosynthetics and backfilling depressions beneath the geomembrane, repairing geosynthetics, backfilling soil layers, and revegetating disturbed areas. Additional drainage facilities may be provided to prevent future erosion.

4.4 Water Quality Monitoring Plan

The groundwater and surface water quality monitoring plan for the OHD landfill is presented in Appendix E of the permit application. The leachate monitoring plan for the OHD landfill is presented in Appendix N of the permit application.

4.5 Landfill Gas Monitoring Plan

The landfill gas monitoring plan proposed for the OHD facility will allow early detection of the lateral migration of landfill gas and verification of the landfill gas management system performance in accordance with the requirements of Section 62-701.530(1) FAC. The following types of landfill gas monitoring will be performed at the site: (i) monitoring for landfill gas in on-site buildings; (ii) monitoring for landfill gas migration along the perimeter berm; and (iii) monitoring at the property boundary for objectionable odors. The following subsections provide a description of the gas monitoring that will be performed at the facility.

4.5.1 Monitoring of On-Site Buildings

The on-site buildings will be located in the entrance area of the landfill. All buildings located within 500 feet of the waste limits on the property will be routinely monitored for methane. Continuous monitoring devices used within on-site buildings will be located in work areas, near any penetrations or cracks in building foundation, or at points where methane might enter the building.

If methane is detected at a concentration greater than 25 percent of the lower explosive limit (LEL) in any on-site building, Omni will perform the activities described in Section 4.5.4.

4.5.2 Monitoring for Landfill Gas Along Perimeter Berm

Gas monitoring probes along the perimeter berm will be used to detect lateral migration of landfill gases. The gas monitoring probes located around the perimeter of the site will be monitored quarterly for methane. Should the results of the quarterly monitoring indicate lateral migration of landfill gases, Omni will install additional gas monitoring probes at the property boundary in the area(s) of concern and perform additional monitoring. If methane is detected at a concentration greater than the LEL in the gas monitoring probes at the property boundary, Omni will perform the activities described in Section 4.5.4 below.

4.5.3 Monitoring for Objectionable Odors at the Property Boundary

Omni's on-site personnel will perform monitoring for objectionable odors at the property boundary on a regular basis. If objectionable odors are detected at the property boundary, Omni will perform the activities described in Section 4.5.4 below. It should be noted that no off-site occupied structures currently exist near the property boundary.

4.5.4 Detecting Exceedances of the Regulations

Should the results of the gas monitoring indicate that the requirements of Section 62-70.530(1) have been exceeded at the facility, Omni will:

- immediately take all necessary steps to ensure protection of human health and notify the FDEP;
- within 7 days of an observed exceedance, Omni will submit to the FDEP for approval, a plan to remediate the landfill gas migration; and
- within 60 days of an observed exceedance, Omni will complete the remediation, unless otherwise directed by FDEP.

4.6 Landfill Active Area Controls

4.6.1 Litter Control

Maintaining proper litter control is essential to the operation of a landfill. When working in areas below natural grade, litter is less likely to escape than when working above natural grade. Litter control procedures for the landfill are discussed below.

4.6.1.1 Prevention of Litter on the Working Face

Litter will be minimized as follows:

- Following proper techniques at the working face may prevent a considerable amount of potential litter by reducing the amount of refuse exposed to the wind. Where possible, the exposed face of the cell will be oriented into the wind. This will cause the wind to blow any loose litter back into the working face and helps keep waste away from the undercarriages of unloading vehicles, which may track the waste along the public roadway as they exit the facility. The compacted waste already on the face helps trap litter.
- When top discharging, refuse will be placed as usual and spread downward. When possible, the exposed face of the fill will be oriented away from the wind for the same reasons bottom discharging is oriented into the wind.
- Compacted waste will be covered as soon as practical to minimize blowing litter.

4.6.1.2 Control of Litter with Litter Fences

Litter that escapes from the working face of the fill area may be controlled by litter fences. Movable/permanent fences may be positioned near the working face as wind and fill operations change. Permanent litter fences may also be placed around the perimeter of the fill areas for additional litter control.

4.6.2 Buffer Maintenance

Litter may occur even with proper litter controls. The following clean-up and maintenance procedures will be followed on a routine basis to maintain the buffer areas:

- Litter clean-up from along fences and buffer vegetation: Litter will be removed from and along litter fences and vegetation as necessary. Litter will not be allowed to accumulate in buffer vegetation.

- Clean-up along on-site roads and buffer areas: Litter occurring along on-site roads and in buffers will not be allowed to accumulate. This litter will be cleaned up as necessary.
- Clean-up at entrance area and entrance road: The site entrance and the road leading to the entrance (¼ mile each direction) will be inspected daily. These locations will be cleared of litter as necessary.
- Vegetation will be maintained and supplemented as necessary in order to provide an adequate visual screen.

4.6.3 Dust Control

Dust control will be practiced during operation of the landfill by the application of water sprays from a water tank truck. The frequency of application of water for dust control will depend on site conditions and specific operation being performed. When necessary, water will be sprinkled on all heavily used roads. The main access road will be regularly sprayed to control dust when required.

4.6.4 Vector Control

Vectors, animals, or insects will be minimized. Maintaining the working face as narrow as possible, providing initial cover on exposed areas, and eliminating water ponding are the primary safeguards against vector problems. Well-compacted wastes and cover material effectively prevent vectors emerging from or burrowing into wastes.

If problems with rodents or insects occur, monitoring and surveys for vectors will be conducted to verify the effectiveness or identify and implement improved vector control practices.

4.6.5 Noise Control

All equipment powered by internal combustion engines will have mufflers installed and maintained in good repair. Screening berms will also be used, when possible, to deflect sound upward.

4.6.6 Recordkeeping

An operating record will be maintained at the site including all records, reports, analytical results, demonstrations and notifications; any construction, operation, and closure permits, including all modifications to those permits, issued by the FDEP, along with the engineering drawings and supporting information; as well as training verifications. This record will be kept with the operation plan at or near the landfill facility, or in an alternate location designated in the operating permit which is readily accessible to landfill operators. The operating record will be available for inspection at reasonable times by the FDEP and maintained for the design period of the landfill.

As part of the operating record, waste records will be maintained. These waste records will indicate the amount of each type of solid waste received each day. Waste reports, summarizing the waste records will be compiled monthly and copies will be provided to FDEP quarterly. The waste records will be kept with the operation plan at the landfill and will be available for inspection at reasonable times by the FDEP. These records will be kept for the design period of the landfill.

The operating record will also include the information and observations resulting from each random inspection of a waste load conducted as part of the load checking program as described previously in Section 2.2.2.

The operating record will also include:

- the quantities of leachate collected by the primary leachate collection and removal system, and the secondary leachate detection and removal system, in gallons per day; and
- a record of the daily precipitation at the landfill based on the rain gauge installed, operated and maintained at the landfill.

This data will be used to calculate the monthly leachate generation rates expressed as a percentage of the monthly precipitation.

In addition, the operating record will also include the following:

- records of all information used to develop or support the permit applications and any supplemental information required;

- records of all monthly information, including calibration and maintenance records, and water quality records; and
- an annual estimate of the remaining life and capacity in cubic yards of the existing, constructed landfill and remaining life and capacity of other permitted areas not yet constructed. This estimate will be reported annually to FDEP.

The operating records will be maintained at the landfill throughout the design life of the landfill. Records that are more than five years old which are required to be retained may be archived, provided that the landfill operator can retrieve them for inspection within seven days.

5. EMERGENCY CONTINGENCY PLAN

5.1 Introduction

This section identifies a set of unplanned circumstances that may occur at the landfill. If handled correctly, the damage or impacts from these problems can be minimized. This section presents procedures to follow for dealing with problems as they occur. Operating personnel will become familiar with the procedures in order to prevent environmental contamination or damage to landfill facilities.

The entrance to the facility allows emergency vehicles immediate access to the landfill by police, fire, and ambulance.

Appendix C presents a list of individuals and emergency response agencies to contact. This list will be posted near all telephones on-site to provide "ready" access to emergency response agencies.

This plan is organized by subsection and contains specific plans to address each type of occurrence listed below:

- fire;
- accident or injury;
- release of contamination to environment;
- hazardous waste;
- uncooperative customers;
- inclement weather; and
- problems with the leachate collection and leachate removal systems.

5.2 Fire Control Plan

5.2.1 When Fire Occurs

The following procedures will be followed in the event of a fire at the facility:

- extinguish small fires with fire extinguisher or smother with soil - do not remain near large fires or explosive materials;
- determine location, extent, type, and, if possible, cause of fire or explosion;
- notify on-site personnel and implement safety and fire control procedures;

- notify Landfill Site Manager if the fire cannot be immediately controlled;
- notify fire department if necessary. Clearly state:
 - location of landfill,
 - location of fire or explosion in landfill,
 - extent of fire or explosion,
 - type of fire or explosion,
 - actions now being taken, and
 - injuries;
- notify rescue squad, if necessary;
- notify health care facility, if necessary; and
- notify sheriff, if necessary.

5.2.2 "Hot Load" Procedures

In the unlikely event that a "hot load" is not identified before entrance into the facility, the following procedures are implemented:

- the truck carrying the "hot load" is to be directed to discharge the load in the landfill but away from the working face and any exposed liner;
- the load is to be placed on top of intermediate cover which will provide sufficient protection between the "hot load" and the underlying waste;
- soil will be spread over the load to smother the "hot load"; and
- the "hot load" will be monitored until there is no evidence of smoldering or high temperatures.

At the end of the day or when appropriate, the load will be worked into the active working face. Areas where "hot loads" are extinguished varies depending on the location of the working face, but will always be away from the working face and any exposed liner.

5.2.3 Fire Extinguishers and First Aid Kits

Fire extinguishers and first aid kits will be installed in the following locations:

- office building/ticket house/weigh station; and
- selected on-site vehicles and equipment.

5.3 Accident or Injury

5.3.1 When an Injury Occurs

When an injury occurs, the following procedures will be implemented:

- shut down equipment in the immediate vicinity as is appropriate;
- determine extent of injuries (location, seriousness);
- apply pressure (compress) on wound to stop severe bleeding;
- if victim is not breathing and has a pulse, administer rescue breathing, if trained;
- if victim has no signs of circulation, administer CPR, if trained;
- DO NOT MOVE VICTIM(S), unless:
 - victim is still in danger, or
 - victim can move self without great pain;
- have someone phone rescue squad (911) unless injuries are clearly minor, and provide the following:
 - clearly state location, and
 - describe injuries;
- stay with and keep victim(s) warm;
- notify Landfill Site Manager;
- transport victim(s) to a nearby medical center if:

- injury is not serious, but requires medical attention (e.g., broken fingers, minor burns), and
- victim(s) can move self without great pain;
- notify sheriff, if necessary; and
- apply first aid, as described below:
 - Landfill Employees - Minor accidents, such as bee stings, minor cuts, and small burns may be treated on site by an employee trained to administer first aid, and
 - Customers - First aid treatment will not be given to customers who have minor accidents at the site. However, personal information about the victim and a description of the accident will be obtained. The customer will be instructed to go to his/her doctor for examination and treatment, if required.

5.3.2 Procedures After an Accident

The following procedures will be implemented in the event of an accident:

- Accident Investigation - The Landfill Site Manager will make a complete investigation of the accident and events leading up to the time of the accident. The investigation will be started as soon as possible after the accident. All witnesses to the accident and persons involved in the accident will be interviewed.
- Determination of Cause - After the facts about the accident have been gathered, the Landfill Site Manager will make a determination as to the cause(s) of the accident.
- Filing of Reports - The Landfill Site Manager will complete and file the appropriate accident report forms.
- Corrective Steps - After a thorough investigation and determination of the cause(s) of an accident, the Landfill Site Manager will take corrective steps so that the same type of accident will not re-occur. These corrective steps may take the form of repair of faulty equipment, installation of safety equipment, or instruction of personnel in safe operating procedures.
- Discussion with Employees - If it is determined that the cause(s) of the accident were related to employee work habits and that remedial safety instructions would be helpful, a meeting with site employees will be held. The accident and the corrective

measures that will be taken will be discussed to prevent another accident. All employees will be instructed in proper safety procedures which should be followed.

- Follow-up - The Landfill Site Manager will follow-up the corrective measures to make certain that proper safety precautions are being taken. All unsafe practices will be called to the attention of the employees.

5.4 Release of Contamination to Environment (Remedial Response)

5.4.1 Response

If contamination is released to the environment, the following procedures will be implemented:

- determine location, extent, type, and, if possible, cause of release (e.g., leachate, contaminated surface water, fuel spill, etc.);
- notify Landfill Site Manager and implement safety and emergency response procedures;
- notify fire department. State clearly:
 - location of landfill,
 - location of contaminant release,
 - extent of release,
 - type of release, and
 - actions now being taken; and
- notify proper authorities including the Florida "Hot Line".

A list of individuals and emergency response agencies to contact in the event of a release of contamination to the environment is provided in Appendix B.

5.4.2 Follow-Up

Unless the occurrence of a contaminant release is clearly due to very unusual circumstances, the Landfill Site Manager will take corrective action to prevent recurrence of the release. The corrective action will be approved by the FDEP.

A report will be filed at the landfill by the Landfill Site Manager in order to have further reference for inquiries by authorities or Omni personnel. The report will state:

- time/date of incident or its discovery;
- type of release and effects;
- source;
- response and effectiveness;
- agencies contacted; and
- corrective actions planned and scheduled.

5.5 Hazardous or Other Unauthorized Materials

In the event that a substance known to be or suspected of being hazardous is dumped from any vehicle at the waste disposal facility, the actions described below will be taken immediately.

5.5.1 The Observer

The Observer will take the following actions:

- Immediately report the incident to the Landfill Site Manager or their designee.
- Avoid exposure to the substance in question. Stay upwind.
- Observe where the material was dumped, by whom (which vehicle), how much was dumped, whether the container appears sound or is leaking, and what the substance looked and smelled like. Such observations will only be made with extreme caution and with the utmost regard for safety. **DO NOT SNIFF OR TOUCH THE SUBSTANCE.**
- Ask the individual who dumped the suspect load where the material was obtained.
- Isolate the approximate area of the suspected load before it is covered or mixed with wastes from other vehicles.

- Ask the driver of the vehicle to remain at the dumping point to ensure adequate vehicle identification. If the driver attempts to leave the discharge point, the observer should inform the Scale master and/or the Landfill Site Manager.

5.5.2 Landfill Site Manager

The Landfill Site Manager will take the following actions:

- Notify the FDEP.
- Record all pertinent facts regarding vehicle, including but not limited to: name of carting company; license plate number; where the load was obtained, if known; any visible evidence identifying the waste substance; and quantity and state of the substance (e.g., solid or liquid or if contained or loose).
- Maintain careful records of other costs incurred as a result of the dumping incident including, but not limited to, security costs in isolating the area, costs of removal (by contract or otherwise) of the suspect material, other costs of intermediate or ultimate treatment and/or disposal, and any other pertinent costs.
- Coordinate the removal of the unacceptable waste with the proper authorities.

5.5.3 Non-Discharged Load

If, before a waste load can be discharged (e.g., during inspection), it is discovered to contain, or is suspected of containing hazardous or other unauthorized materials, the same reporting procedures by the Observer and Landfill Site Manager described for the discharged loads still apply, except concerning the discharging itself. In addition:

- inform the driver that his load is unacceptable and why;
- do not permit the load to be discharged; and
- suggest to the driver that he phone the FDEP to determine what he should do with the load.

5.6 Uncooperative Customers

The following actions will be implemented if a customer will not obey site rules or cooperate with site personnel.

- if the customer is creating a substantial problem involving their or other's safety, or significantly interfering with disposal operations, the Landfill Site Manager will decide what action should be taken;
- if the customer is creating a minor nuisance and does not respond to polite suggestions, the employee will record the vehicle description and license number, and report the incident to the Landfill Site Manager or home office management; and
- in a case where a customer causes or threatens to cause harm to landfill property or personnel, or otherwise interferes with safe operation of the landfill, the Landfill Site Manager will contact the Sheriff.

5.7 Inclement Weather

5.7.1 Operation in Wet Weather

<u>Problem</u>		<u>Solution</u>
Saturated Unloading Area	1)	Stockpile well-drained soil and apply as necessary.
	2)	Keep compactors off area; use dozers on unloading area. Unload and push refuse perpendicular to area.
	3)	Grade unloading area slightly to permit runoff.
Mud Carried Onto Access/ Public Roads	1)	Carefully scrape mud from pavement.
	2)	Provide clean rock dressing to internal access roads. If internal access roads are properly maintained, then dirt on the tires of disposal vehicles will be thrown off prior to reaching public access roads.
Cover is Wet/Unworkable	1)	Maintain compacted, sloped stockpiles.
	2)	Use alternate cover approved by permit.

5.7.2 Preparation for Inclement Weather

The following preparations will be made for inclement weather:

- Wet weather areas will be prepared during periods of dry soil conditions. The wet weather area will be constructed close to an all weather road. Work on the wet weather area will be performed at various times when personnel and equipment are not required for other higher priority assignments.
- Access roads around the site will be maintained as necessary. These roads will be maintained in a serviceable condition with the use of the available equipment on site, such as grader, water truck, dozer and loader. Major repairs will be scheduled, if required.
- Drainage structures, ditches, and sediment control will be checked to ensure they are in good condition and free of significant debris prior to anticipated heavy rains.
- Temporary (Operations Area) Drainage Control - cover material, rock/sand, aggregate, and corrugated metal pipe, will be stockpiled for use in an emergency situation.
- When periods of high wind are predicted, litter fencing will be moved to close proximity of the working face and in the expected downwind direction. Cover may be required frequently during the day.

5.7.3 Preparation for Severe Weather or Hurricanes

In addition to the activities listed in Section 5.7.2 above, the following preparations will be made for severe weather or hurricanes. The following activities will be performed before and after the severe weather condition.

72 hours prior to event

- Pick up any loose debris from the site
- Call supplier to top off all on-site fuel tanks
- Assess inventory
- Test generators
- Make final supply run for non-perishable food items and drinking water

48 hours prior to event

- Continue with housekeeping efforts
- Perform administrative building flood prevention (to protect documents, equipments, furniture, etc.)
- Continue to evaluate situation pertaining to alternate sites
- Inform customers of expected service
- Supply written instructions to all employees (by Omni human resource department)
- Allow employees time to secure their respective belongings

24 hours prior to event

- Continue with housekeeping efforts
- Fit plywood shutters where necessary
- Distribute phone numbers to all employees
- Inform customers & corporations of possible cessation of operations

12 hours prior to event

- Secure the facility
- Fuel all vehicles and heavy equipment
- Park all track machines and rubber tire equipment close together (at ground level, i.e., off the top of the landfill)

Post - Event

Key personnel (facility manager, operations manager, and certified operators) to assess site
Contact all employees
Initiate clean up/recovery of the facility
Use of non-essential office staff for miscellaneous duties
Resume limited or complete operations

5.8 Problems Affecting the Leachate Collection and Removal Systems

5.8.1 Interruption of Power Service to the Landfill

The ability to switch over to the secondary power supply allows the leachate collection and removal systems to continue operating with virtually no interruption. In the event that the main power service to the landfill is interrupted for more than 24 hours, the site will be switched over to the secondary power supply system consisting of diesel generators.

5.8.2 Interruption of Flow to Leachate Storage Facility

In the event that leachate flow to the leachate storage facility is temporarily interrupted, the leachate will be stored in the active cell(s). If the system cannot be restored within a reasonably acceptable period, leachate will be pumped directly from the sump to tanker trucks for off-site treatment.

5.8.3 Primary Leachate Sump Alarm Level Switch

An alarm level switch will be installed in one of the primary leachate sumps to notify the operator in the event that leachate levels in the sumps reach this level. The intent of the alarm is to notify the operator of a potential problem with the leachate pumps or piping. The alarm may indicate that either one or possibly both of the primary leachate pumps may have stopped working, the pumping capacity of both pumps has been exceeded, the storage containers are full, or there is possible blockage in the leachate transmission line. The operator shall observe the leachate pumps, pump control panels and flow meter to determine if either or both of the pumps are working. If at least one of the pumps is operational and there is no blockage in the leachate transmission line the operator will open the gate valve located in the secondary leachate manhole. By opening this valve leachate from the adjacent primary sump may flow into the secondary leachate sump for pumping. The operator shall record the flow meter reading on the secondary leachate sump pump prior to opening the gate valve. The operator shall also record the date and time of the occurrence and reason why the valve was opened (i.e., primary pumps failed, excessive leachate flow, etc.). The operator shall monitor the pumping of leachate to determine if the high leachate levels were associated with the pumps. The operator shall also examine the leachate transmission line manholes, piping and storage tanks assess any other potential problem. The leachate pumping system will require troubleshooting to determine the cause of the leachate build-up in the primary sumps and malfunctioning/inoperable pumps shall be replaced or repaired as soon as practical.

5.8.4 Managing Hazardous Leachate

In the event the leachate quality monitoring indicates the leachate is a hazardous material, the leachate will be managed in accordance with Chapter 62-730 of the FAC.

6. SAFETY PLAN

6.1 Emergency Procedures

- Posting of Procedures - All emergency procedures (Emergency Contingency Plan - Section 6 of this Operation Plan) will be updated as appropriate and after each emergency, if required. All emergency procedures will be posted in the Landfill Site Manager's office, in conspicuous places at the site, and at the gate house.

The name, location, and telephone number of the nearest doctors, medical treatment facilities, and ambulance services (contained in Appendix B of this plan) will be posted in the Landfill Site Manager's office and all occupied buildings (i.e., maintenance building, gate house and office).

- Instructions on Procedures - All new personnel will be instructed on the emergency procedures used at the landfill. All employees will be informed of any changes in emergency procedures.
- Responsibility of Employee - It is the responsibility of every employee to know and remember their role in each emergency procedure at the site.

6.2 General Safety Practices

- Knowledge of Procedures - All employees at the landfill will know the proper procedures for reporting accidents, injuries, and fires.
- Posting of Information - Roadway limits within the landfill footprint will be clearly posted as necessary. Site speed limits will be clearly posted on the main access road. Direction of travel and location of curves will also be posted. The location of disposal areas will be clearly indicated.
- Site User Rules - Site user rules will be posted at the entrance to the landfill. Employees will watch for violations. Employees will explain rules to violators, stressing that the rules are for their protection. As a last resort, the Landfill Site Manager will notify the County Sheriff's Office for further action.
- Discharging Loads - For safe operations, the discharging area will be only slightly sloped (for drainage) at all times and equipment maintained in good repair.

- Safety Devices - Proper safety devices, such as roll-over protective cabs, will be installed on all equipment and kept in good repair.
- Fire Extinguishers - Fire extinguishers will be provided in buildings and on equipment. Each extinguisher will be appropriate for the types of fires likely and they should be checked or serviced as appropriate. Discharged (even partially) fire extinguishers will be removed and replaced with fully charged units.
- First Aid Kits - First aid kits will be maintained in the main office building and in select site vehicles. An inventory of the first aid supplies should be maintained in order to re-supply the first aid kits when items used.
- Safety Meetings - Safety meetings will be regularly scheduled. Situations that can cause accidents and ways to prevent them will be discussed. Also, the effectiveness of corrective actions following accidents at the site will be discussed.
- NO SMOKING will be allowed within the landfill area or near fuel storage facilities.

6.3 Safety Equipment

Certain safety equipment is specified for equipment operator protection. It is the responsibility of every employee to ensure that their safety equipment is in good condition. All employees are to use their safety equipment at appropriate times. The safety equipment recommended for equipment operators is listed in Table 4.

6.4 Site User Rules

The following set of rules will be observed at the landfill.

- No Smoking - Users will not smoke on the site.
- Children and Pets in Vehicles - Individuals (children and pets) not involved in unloading refuse will remain in the vehicle.
- Persons Unloading to Remain Near Vehicle - Persons unloading will remain within 10 ft (3 m) of their vehicle at all times.
- No one will be allowed to ride on the outside of a vehicle while on site.

- Discharge Waste Behind Vehicle - Whenever possible, waste will be discharged immediately behind the unloading vehicle.
- Unloading - No unloading by non-mechanized trucks or passenger cars is to be done using rapid acceleration or deceleration of the vehicle.
- Keep Tools in Vehicle - Tools, removable tailgates, sideboards, wheelbarrows, ladders, and tarps will be kept in, on, or under the vehicles being unloaded to prevent damage to other vehicles or site equipment.
- Speed Limit - The posted speed limit within the landfill site will be enforced. Operating personnel will direct users to further reduce their speed when justified by site conditions.
- No Scavenging - Scavenging is not permitted at the landfill site.
- No Shooting - Firearms are not permitted at the landfill site.
- No Explosives - Explosives are not permitted at the landfill site.

7. FINAL CLOSURE

7.1 Introduction

The OHD landfill will be closed as sections of the landfill reach final design elevations. The final cover system components are described in Section 7.2. Seeding and planting requirements are described in Section 7.3. Erosion minimization activities are described in Section 7.4. The final cover drainage system is described in Section 7.5.

7.2 Final Cover System Components

The cross section of the final cover system on the top slopes of the landfill is shown in the permit drawings and consists of, from top to bottom:

- a 0.5-ft (0.15-m) thick vegetative layer;
- a 1.5-ft (0.45-m) thick vegetative support layer;
- a 40-mil (1-mm) thick polyethylene (PE) geomembrane; and
- a 1-ft (0.3-m) thick intermediate cover layer.

The cross section of the final cover system on the side slopes of the landfill is shown in the permit drawings and consists of, from top to bottom:

- 0.5-ft (0.15-m) thick vegetative layer;
- a 1.5-ft (0.45-m) thick vegetative cover layer;
- a geocomposite drainage layer;
- a 40-mil (1-mm) thick PE geomembrane; and
- a 1-ft (0.3-m) thick intermediate cover layer.

The final cover system incorporates a geomembrane, which significantly reduces infiltration into the landfill cells. The grades of the final cover system are 4H:1V on the side slopes, and 5.0 percent on the top slopes.

7.3 Seeding and Planting

A vegetative cover will be established for the OHD landfill in order to minimize erosion on the final cover. Grass will be propagated by hydroseeding, sodding or by other equivalent method in order to promote vegetative growth on the slopes of the final cover as construction of the cover progresses.

An initial watering schedule will be developed at the time of closure, and will be dependent on whether the landfill is closed in the dry season or the rainy season. The grass will be watered and fertilized, as necessary, to ensure continued growth.

7.4 Erosion Minimization

Erosion of the final cover system will be minimized by final cover swales. The swales will intercept sheet flow from the final cover system. The final cover swales will direct the collected surface-water runoff to downchutes and the perimeter swale.

A vegetative cover will be placed on the final cover slopes of the landfill as described in Section 7.3. This vegetative cover will minimize erosion and reduce soil loss from the final cover system. The final cover system will be periodically inspected and erosion damage or vegetative stress observed during these inspections will be repaired before significant erosion has a chance to develop.

7.5 Drainage

Drainage swales are proposed on the final cover system to intercept the surface water runoff from higher elevations and direct the water via downchutes to the perimeter ditches around the landfill perimeter. The surface water flow direction on top of the final cover is illustrated in the permit drawings.

As required, the swales, downchutes, culverts, and perimeter ditches will be maintained on a regular basis. Significant sediment and debris, which has accumulated in the swales, culverts, and perimeter ditches will be removed to facilitate flow and prevent overflow. Significant sediment and debris is considered any amount that impedes flow in the swale or any buildup greater than 0.5 feet.

8. BORROW AREA OPERATIONS

8.1 Overview

Fill material needed for the OHD landfill construction and daily operations will be borrowed from excavations, or pits, located in the areas indicated on the Permit Drawings. Prior to any borrow activities in the location designated as Borrow Area A, the storm water management berm, in its interim configuration, will be constructed and vegetated. The outside toe of this berm will be constructed no closer than 25 feet to the nearest wetland boundary. In subsequent stages of the landfill development, the storm water management berm around Borrow Area A will be raised to its final height prior to the edge of the borrow excavation getting closer than 250 feet from the inside toe of the berm.

The development of Borrow Areas B and C will be undertaken in future phases of the OHD landfill development. It is anticipated that these areas will be developed in a manner similar to Borrow Area A except that the perimeter berm will be replaced with a wire-reinforced silt fence. The plan for borrow area operations in the Borrow Areas B and C may be reviewed based on the experiences gained from operation of Borrow Area A during construction.

Two methods are proposed for excavating fill material from the borrow areas. These methods include: (i) mechanical excavation without dewatering (i.e. wet excavation) and/or (ii) dewatering the borrow area (i.e. dry excavation) and excavating fill using conventional earth moving equipment. Both methods are to be implemented in a manner which will minimize impacts to adjacent wetlands.

8.2 Wet Excavation

Wet excavation is expected to be the primary method of borrow area operation during construction at the OHD facility. This method of borrow area operation will require removal of soil materials from the pit without first dewatering the pit. Initially, the area will be cleared and grubbed and the topmost organic soil layers will be stripped and used for construction of the perimeter berm or stockpiled for future use. Next, typical excavation equipment such as a dragline or backhoe excavator will be positioned to remove soils and temporarily stockpile the material on the surface adjacent to the excavation. The slope of the temporary stockpile area will be maintained to channel excess water back to the open excavation or to allow infiltration. A bucketloader or other suitable equipment will maintain the temporary stockpile and will load trucks or pans used to haul the material to the area of current construction or to designated stockpile areas.

All borrow areas will be developed from the center of the designated area towards the outer perimeter. The excavation equipment will continuously move around the perimeter of the borrow area excavation. After digging to the equipment's optimum depth, the equipment will move in a clockwise or counterclockwise direction to continually expand the pit until it reaches the final planned dimensions.

8.3 Dry Excavation

Dry excavation will be the alternative method of borrow area operation at the OHD facility. This method of borrow area operation requires dewatering of the borrow area prior to removal of soil materials. Initially, the borrow area will be cleared and grubbed and the topmost organic soil layers will be stripped and used for construction of the perimeter berm or stockpiled for future use. Next, a ditch recharge system will be constructed between the area to be dewatered and adjacent wetland areas, which may be affected by the dewatering activities. The purpose of the ditch recharge system is to maintain a ground water level between the dewatered pit and the adjacent wetland, which will prevent detrimental affects to the wetland area. It is anticipated that Omni may be required to obtain a water use permit from the South Florida Water Management District for the dewatering system if daily pumping quantities exceed 100,000 gallons. In conjunction with the water use permit application, a detailed layout of the recharge ditches, sequence of developing the dry pit, and location of pumps will be prepared.

The groundwater will be lowered in the borrow pit as the soil is excavated to provide trafficability in the excavation for equipment performing the excavation. It is anticipated that earth will be moved using self-loading pans, dump tucks loaded by backhoe, or other suitable heavy equipment, which will cycle through the borrow area to load and to the construction or stockpile site for unloading. As the excavation is progressively deepened, the ground water elevation in the excavation will be lowered ahead of the excavation bottom elevation. All water taken from the pit will be deposited in the recharge ditches, where it will maintain the ground water level in adjacent wetlands.

TABLE 1
PERSONNEL REQUIREMENTS
FOR RECEIPT OF UP TO 3,000 TONS OF WASTE PER DAY
OHD LANDFILL

<u>Personnel Classification</u>	<u>Total Number of Personnel Employed</u>	<u>Minimum Number of Personnel Required for Receipt of Waste</u>
Office Administrator	1	0
Scale master	1	1
Landfill Equipment Operator (s)	3	1
Spotter*	1	1
Landfill Site Manager/Operator**	1	1

Note:

* Spotter/Landfill Site Manager/Equipment operator – if trained

** random load waste inspector or designee

TABLE 2
HEAVY EQUIPMENT REQUIREMENTS⁽¹⁾
FOR RECEIPT OF UP TO 3,000 TONS OF WASTE PER DAY
OHD LANDFILL

	Equipment On-site	Back-up On-site
Ford F-250 Pickup	1	0
Caterpillar 12G Motor Grader	1	0
Ford F-450 Fuel Truck	0	1
Water truck	1	0
Sterling Fuel Truck	1	0
6" water pumps	2	0
4" water pumps	1	0
Caterpillar D6 Dozer	1	0
Caterpillar D8R Dozer	1	0
Caterpillar D8R Dozer	0	1
Caterpillar Articulating Truck	2	0
Caterpillar 330 Excavator	1	0
Kawasaki Front-end Loader	0	1
Caterpillar 836 compactor	1	0
Caterpillar 826 compactor	0	1
Landfill Truck Tipper	1	1

Note:

- (1) Equipment manufacturers' names are provided to indicate the approximate size and/or capacity of the equipment. The specific manufacturer for this equipment is not required but similar size is.

TABLE 3
HEAVY EQUIPMENT RENTAL COMPANIES

Name of Rental Business	Phone Number
United Rental	(407) 332-1470
Lundquist Excavating	(407) 847-9419
Ringpower (Matt Taylor)	(407) 855-6195

TABLE 4
OPERATOR PROTECTIVE EQUIPMENT

Equipment: Each piece of heavy equipment should be provided with:

- Safety restraint belt
- Roll-over bars
- Backup warning system
- Fire extinguisher

Personal: Equipment operators should have the following personal protective clothing and accessories:

- Ear muffs or ear plugs
- Safety glasses or face shields
- Rubber or leather (steel toe, shank) boots
- Work gloves
- Hard hats

APPENDIX A

TRAINING PLAN

LIST OF EMPLOYEES AND THEIR TRAINING **OHD FACILITY**

EMPLOYEE NAME	TITLE / JOB DESCRIPTION	TRAINING	CERTIFICATION	
				EXPIRY DATE
MATT ORR	Facility Manager	Certified Operator		Sep-09
MIKE ROWLEY	Operations Manager	Certified Operator		May-09
SHARON STANFILL	Office Manager			
CHUCK MCLENDON	Comptroller			
JIM SPENCER	Environmental/Sales			
FRED HAWKINS, JR.	Marketing/Public Relations	Certified Operator		Sep-09
DAVID COLLINS, JR.	Lead Operator	MOLO Certified		Feb-08
TONY PEREZ	Scale Master			
JOHN CASTRO	Equipment Operator			
MITCHELL VICKERS	Operator	Certified Operator		Sep-09
LARRY PANKEY	Equipment Operator			
JOSE DOMINGUEZ	Laborer			
HECTOR CARRION	Equipment Operator			
AARON HILLIARD	Operator	Certified Operator		Sep-09
TIM BLAIR	Equipment Operator			
RANDAL SHANKS	Equipment Operator			
MICHAEL DAVIS	Operator	Spotter/Waste Screener		Feb-08
EUGENE (MARTIN) GANDY	Equipment Operator			
CHET ADKINS	Scale Master/Operator			



2006 Solid Waste Courses

Initial Operator

24-Hour Initial Training Course for Landfill Operators (Class I, II, III and C&D Sites)

Feb 22-24, 2006	Gainesville, FL	060664
June 21-23, 2006	Gainesville, FL	060664-1
Nov 15-17, 2006	Tampa, FL	070723

Cost: \$475

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 2.4 FBPE PDHs (EXP00074): 24.0

Solid Waste I II III/C&D: 16.0

SWANA CEU: 20.0

Times: Day One - Day Two: 8:00 a.m. - 5:30 p.m.

Time Day Three: 8:00 a.m. - 4:00 p.m.

Topics include: History of Solid Waste Management in US, Basics of Landfill Design and Operations, Regulatory Aspects of Solid Waste Management, Solid Waste Facility Siting, Leachate and Stormwater, Gas and Odor, Groundwater Monitoring, Waste Control, Non-Routine Operations, Employee Health and Safety, Contingency Planning, Monitoring Site Development and Efficiency, Financial Responsibility and Closure and Post Closure.

19-Hour Initial Training Course for Transfer Station Operators and MRF Operators

Jan 26-27, 2006	Gainesville, FL	050661-1
Apr 13-14, 2006	Gainesville, FL	050661-2
July 27-28, 2006	Naples, FL	070724
Oct 19-20, 2006	Gainesville, FL	070025

Cost: \$395

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 1.9 PDHs (EXP00074): 19.0

Solid Waste I II III/C&D: 10.0 TS/MRF: 8.0 Spotter: 4.0

SWANA CEU: 2.5

Time: 7:30 a.m. - 6:30 p.m.

This course is approved as an initial training for transfer station operators and MRF operators. The combined course will be held over two days and will include an exam. (Attendees must achieve 70% proficiency.) Topics include: Brief History of Solid Waste Management in U.S., Regulatory Aspects, The Modern Transfer Station and MRF Facility, Siting, Leachate and Stormwater, Ventilation and Odor Control, Waste Control, Operating Guidelines, Employee Health and Safety, Contingency Planning, Financial Responsibility, Monitoring Site Development and Efficiency, and Facility Closure.

Construction and Demolition Debris Landfills: A Short Course for Operators - 24 Hours

May 17-19, 2006 Tampa, FL 060617

Cost: \$465

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 2.4 FBPE PDHs (EXP00074): 24.0

Solid Waste Initial C&D: 24.0

Solid Waste I II III/C&D: 16.0

SWANA CEU: 2.4

Time: 7:30 a.m. - 3:00 p.m.

Topics discussed include: regulations, recycling, siting, groundwater monitoring, regulatory compliance inspections, basic operating guidelines, Leachate, and financial responsibility. This course is approved as an initial course for C&D operators and continuing education for class I, II, III operators. Participants must be present for the entire course and pass the exam with 70% proficiency.

SWANA-Manager of Landfill Operations (MOLO)

Aug. 29- Sep. 1, 2006 Daytona Beach, FL 070022

Cost: \$545

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 3.0 FBPE PDHs (EXP00074): 30.0

Solid Waste I II III/C&D: 16.0 TS/MRF: 8.0

SWANA CEU: 30.0

Time: Day One: 7:30 a.m. - 6:15 p.m.

Time: Day Two - Day Three: 7:30 a.m. - 5:15 p.m.

Time: Day Four: 8:00 a.m. - 11:30 a.m.

This four-day course is approved only as an initial training course for Landfill Operators. During the course you learn about current landfill design and operating practices and requirements, including site selection, waste screening, gas and leachate issues, training, and an overview of state and federal regulations. Plus, MOLO® offers a field exercise to give you the opportunity to review the classroom concepts and see how they can be applied on the job. There is also a final written exam with multiple choice, true/false and problem solving questions. (30 hours)

Register online at www.treeo.ufl.edu and click on "Solid Waste."

SWANA-Manager of Landfill Operations (MOLO) - Exam Only

Apr 4, 2006	Panama City Beach, FL	060047-2
July 27, 2006	Naples, FL	070024
Sep 1, 2006	Daytona Beach, FL	070023-1
Nov. 16, 2006	Tampa, FL	070024-2

Cost: \$150

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

Time: 8:00 a.m. - 11:30 p.m.

For individuals interested in seeking the voluntary certification as a Manager of Landfill Operations (MOLO®) with the Solid Waste Association of North America (SWANA), you are now allowed to take the exam without taking the course if you have certain landfill operations experience and meet the minimum qualifications. (To receive credit in the State of Florida for being MOLO® certified, operators must show proof of taking the course.) Failed written exam candidates. If you need to retake the MOLO® exam, you can do so at any of these exam dates. You may take the exam for an additional fee as many times as needed without retaking the course. For more information on this certification, you may contact SWANA directly at 301) 585-2898 or 1-800-Go-SWANA.

SWANA-Managing MSW Recycling Systems - Exam Only

Apr. 4, 2006	Panama City Beach, FL	060052-2
July 27, 2006	Naples, FL	070023
Sep. 1, 2006	Daytona Beach, FL	070023-1
Nov. 16, 2006	Tampa, FL	070023-2

Cost: \$150

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

Time: 8:00 a.m. - 11:30 a.m.

Presented in cooperation with SWANA-Florida Chapter and SWANA.

Initial Spotter

Basic Landfill Operations

Mar. 21, 2006	Orlando, FL	060615
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Cost: \$295

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

Hours: 8 CEUs: 0.8 FBPE PDHs (EXP00074): 8.0
Solid Waste I II III/C&D/TS/MRF/Spotter Initial: 8.0

This 8 hour course covers the basic operations of a landfill of which the spotter maybe involved with. Topics include the managing working face, rules and regulations, health and safety practices and prohibited waste. This course is approved as an initial course for all spotters and continuing education for operators and spotters.

Spotter Training for Solid Waste Facilities

Jan. 18, 2006	Gainesville, FL	060634-1
Feb. 22, 2006	Gainesville, FL	060634-2
Apr. 25, 2006	Gainesville, FL	060635-1
May 17, 2006	Tampa, FL	060635-2
June 21, 2006	Gainesville, FL	060635-3
Aug. 23, 2006	Gainesville, FL	070726-1
Sep. 13, 2006	Sarasota, FL	070726-2
Oct. 25, 2006	Gainesville, FL	070029-1
Dec. 4, 2006	Gainesville, FL	070029-2

☐ Onsite training available ☐ Contact: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

Cost: \$295 CEUs: 0.8 FBPE PDHs (EXP00074): 8.0
Solid Waste I II III/C&D/TS/MRF: 8.0
Time: 8:00 a.m. - 5:00 p.m.

This course covers the role of spotters at landfills and waste processing facilities. Included is an overview of facility operations focusing on understanding permit conditions and site plans as they relate to the spotter's responsibilities.

Other topics include: safety, including fire control, first aid and emergencies at waste sites; managing the working face and incoming waste; prohibited wastes; regulations, with a look at how and why they apply to spotters; the compliance and enforcement process, emphasizing inspection strategies; and emerging issues and trends effecting waste workers. This course is designed as initial spotter training or as follow-up for continuing education requirements.

Spotter Training for Solid Waste Facilities - SPANISH (Manual and instruction are in Spanish)

Feb. 1, 2006	Orlando, FL	060236-2
May 17, 2006	Tampa, FL	060236-1
Aug. 16, 2006	Sarasota, FL	070035
Oct. 25, 2006	Gainesville, FL	070035-1

Cost: \$295

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEUs: 0.8 FBPE PDHs (EXP00074): 8.0
Solid Waste I II III/C&D/TS/MRF: 8.0
Time: 8:00 a.m. - 5:00 p.m.

This is the same Spotter Training for Solid Waste Facilities course, except the instruction and manual are in Spanish.

Training for Spotters at Construction and Demolition Sites, Landfills and Transfer Stations

Nov. 15, 2006	Tampa, FL	060611
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Cost: \$250

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8 FBPE PDHs (EXP00074): 8.0
Solid Waste I II III/C&D/TS/MRF: 8.0
Time: 8:00 a.m. - 5:00 p.m.

This 8-hour course provides an overview of spotter operations at landfills, construction and demolition sites and transfer stations. Topics include: spotter responsibility, communication, traffic management, state regulations, inspections, prohibited and hazardous materials, safety, and landfill fires. This course is approved as an initial course for all Spotters.

☐ Onsite Training ☐

Look for this symbol, ☐ for courses that can be delivered onsite at your location. For more information contact: 352/392-9570.

Continuing Education

Required every 3 years.

Continuing Education	I II III	C&D	Transfer	MRF	Spotter
SWANA-MOLO	16	16	8	8	
C&D Short Course	16	16			
19 Hour TS/MRF	10	10	8	8	4
24 Hour I, II, III/C&D	16	16			

Chemical Compatibility and Storage

Feb 7, 2006 Gainesville, FL 060722

Oct. 24, 2006 Gainesville, FL 070027

Cost: \$295 (\$200 if taken with Hazardous Materials Chemistry)

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D/TS/MRF/Spotter: 4.0

SWANA CEU: 6.0

Time: 8:00 a.m. - 5:00 p.m.

This course focuses on chemical incompatibility and principles of safe storage. The purpose is to increase student knowledge regarding the terminology and behavior of hazardous materials. The chemical terms used are, for the most part, those defined and used by OSHA, USDOT and USEPA. An accompanying course, "Hazardous Materials Chemistry for the Non-Chemist" will be held one day prior to this course and introduces basic chemical classifications, terminology and concepts. Students can enroll in either day as a one-day class or both days. Separate registration fees apply; you will receive a discount for taking both courses.

Excavation and Trenching: Competent Person Training

June 23, 2006 Gainesville, FL 060621

Cost: \$295

Coordinator: Mari Kearn, mkearl@treeo.ufl.edu or 352/392-9570 x229

☐ Onsite training available ☐ Contact: Mari Kearn, mkearl@treeo.ufl.edu or 352/392-9570 x229

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D: 8.0; SWANA CEU: 5.0

Time: 8:00 a.m. - 5:00 p.m.

If you or your employees engage in trenching activities, you may be the target of increased scrutiny by OSHA, safety inspectors and insurance carriers. This course is designed to give you a practical interpretation of the requirements of OSHA's "Competent Person" rules as well as other regulations related to trenching. You learn the essentials of soil analysis, protective systems, and the applicable OSHA standards.

FDEP SOP Sampling Training For Groundwater, Surface Water and Wastewater

Apr 25, 2006 Gainesville, FL 060081-1

Apr 26, 2006 Gainesville, FL 060081-2

Cost: \$295

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.75 FBPE PDHs (EXP00074): 7.5

Solid Waste I II III/C&D: 7.0

Time: 8:00 a.m. - 4:30 p.m.

This course teaches the basic concepts and techniques for scientifically valid field sampling, as outlined in DEP's Standard Operating Procedures. Planning, documentation, quality control, equipment considerations, and actual sampling procedures for surface water, wastewater, and groundwater are covered. The course involves lecture and actual hands-on segments.

Florida Stormwater, Erosion and Sedimentation Control Inspector Training Program

Mar 6-7, 2006 Gainesville, FL 060196

Cost: \$295

Coordinator: Karen Prine, kprine@treeo.ufl.edu or 352/392-9570 x214

CEU: 1.0 FBPE PDHs (EXP00074): 10.0

Solid Waste I II III/C&D: 12.0 MRF: 4.0 TS: 8.0

Time: 8:30 - 4:30 p.m.

This course is designed around State of Florida approved curriculum and presented by an FDEP qualified instructor. It provides a practical foundation for understanding and implementing Best Management Practices (BMPs) as required in Stormwater Pollution Prevention Plans (SWPPPs) under DEP / NPDES permitting. Participants successfully completing this course, including passing the *final exam*, are qualified as Florida Stormwater Management Inspectors.

Groundwater Issues for Landfill Operators - 8 Hours

Apr. 26, 2006 Gainesville, FL 060616

Cost: \$295

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D: 8.0 SWANA CEU: 4.0

Time: 8:00 a.m. - 5:00 p.m.

This 8-hour course is a basic introduction to information about dealing with groundwater at a landfill. The instructor will discuss groundwater sampling and analysis, monitoring plans, as well as regulations and guidelines you need to follow at your site. North Florida Hydrogeology is also covered.

Hazardous Materials Chemistry for the Non-Chemist

Feb 6, 2006 Gainesville, FL 060718

Oct. 23, 2006 Gainesville, FL 070026

Cost: \$295 (\$200 if taken with Chemical Compatibility and Storage)

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D/TS/MRF/Spotter: 8.0

SWANA CEU: 7.5 Time: 8:00 a.m. - 5:00 p.m.

Hazardous Materials Chemistry for the Non-Chemist (continued)

The purpose of this course is to increase student knowledge regarding the terminology and behavior of hazardous materials. The chemical terms used are, for the most part, those defined and used by OSHA, USDOT and USEPA. This course introduces basic chemical classifications, terminology and concepts. A second course "Chemical Compatibility and Storage" will be held on day two and focuses on chemical incompatibility and principles of safe storage. Students can enroll in either day as a one-day class or both days. Separate registration fees apply, you will receive a discount for taking both courses.

Hazardous Waste Regulations for Generators

Mar 31, 2006 Tampa, FL 060040

Cost: \$295

Coordinator: Carol Hinton, chinton@treeo.ufl.edu or 352/392-9570 x209

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D/TS/MRF/Spotter: 4.0

SWANA CEUs: 3.0

Time: 8:00 a.m. - 5:00 p.m.

Avoid potentially high penalties! Find out how you can comply with regulations that apply to you as a generator of hazardous waste. The course instructor, with guest speakers from Florida Department of Environmental Protection, will discuss what to expect during an inspection, and examples of non-compliance that can result in costly penalties. Course topics include: universal waste, container management, generator categories, and minimizing waste generation. Small, medium and large generators alike will benefit from this course.

Health and Safety for Solid Waste Workers

Apr 12, 2006 Winter Haven, FL 060040-2

Sep. 14, 2006 Sarasota, FL 060613

Cost: \$295

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

☐ Onsite training available ☐ Contact: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D/TS/MRF/Spotter: 8.0

SWANA CEU: 6.0

Time: 8:00 a.m. - 5:00 p.m.

This course is specifically designed to apply the concepts of workplace health and safety to the increasingly complicated arena of waste management. As well as practical skills and information, the course will emphasize the worker's roles and responsibilities to take care of themselves, and each other, on the job at landfills, debris disposal sites, WTE plants, transfer stations, MRFs, and other waste processing facilities.

Health and Safety Training for Hazardous Materials Activities: 40-hour OSHA Course

Jan 31-Feb 3, 2006 Gainesville, FL 060717

Cost: \$895

Coordinator: Carol Hinton, chinton@treeo.ufl.edu or 352/392-9570 x209

CEU: 4.0 FBPE PDHs (EXP00074): 40.0

Solid Waste I II III/C&D/TS/MRF: 8.0 SWANA CEU: 27.5

Time: Day One - Day Four: 8:00 a.m. - 5:00 p.m.

Time: Day Five: 8:00 a.m. - noon

This course provides 40 hours of intensive classroom instruction and hands-on training fulfilling OSHA requirements 29 CFR 1910.120 paragraphs [e] or [q] - both controlled and uncontrolled sites. If you are involved in the implementation and review of site safety plans and systems, you also should attend this course. Hands-on exercises involve air-monitoring operations, decontamination exercises, plugging and patching, as well as respirator use.

Introduction to Electrical Maintenance

Feb 21-23, 2006 Gainesville, FL 060518

Cost: \$495

Coordinator: Mari Kearn, mkearl@treeo.ufl.edu or 352/392-9570 x229

CEU: 2.0

FBPE PDH (EXP00074): 20.0

Solid Waste I II III/C&D/TS/MRF: 16.0

Time: 8:30 a.m. - 5:00 p.m.

In this course, you are introduced to three-phase electrical motor controls and you learn how to properly use various types of meters to collect operating data and troubleshoot. In addition, you assemble working motor control circuits such as holding, interlock, low voltage and float controlled circuits. Actual case studies are used to familiarize you with the data and math required for motor and pump evaluation. All participants are advised to bring calculators for classroom examples. Topics include: Safety, electrical panels, motors and controls, performance measurement, and control circuit assembly.

Landfill Gas and Leachate Systems

Nov 16, 2006 Tampa, FL 070036

Cost: \$275

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8

FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D: 8.0

SWANA CEU: 5.5

Time: 8:00 a.m. - 5:00 p.m.

This course teaches you how to comply with local, state and federal regulations governing landfill gas and leachate systems. During course presentations and demonstrations, you learn about up-to-date technology on the control processes and designs of these systems. Discussion will also include biological decomposition of wastes, characteristics of landfill gas and leachate, migration and monitoring of landfill gas design considerations and treatment options. (8 hrs.)

Landfill Gas Safety Training: Nature, Hazards, Regulations and Response

Feb 8, 2006 Gainesville, FL 060618

Cost: \$195

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.4

FBPE PDHs (EXP00074): 4.0

Solid Waste I II III/C&D/Spotter: 0.4

Time: 1:00 p.m. - 5:00 p.m.

This is a short course in working safely at waste disposal facilities. There will be discussion on landfill gas characteristics, hazards and occurrence, regulations, work plans and emergency response.

Landfill Gas Safety Training: Nature, Hazards, Regulations and Response (continued)

This is a must attend course for anyone working at a landfill. This course would be of value to all operations and management personnel at waste disposal sites, fire and emergency responders, construction and specialty contractors, regulatory personnel, and consultants.

Laws and Rules for Florida Engineers

Mar. 20, 2006	Orlando, FL	060508-6
Apr. 6, 2006	Panama City Beach, FL	060508-5
Apr. 7, 2006	Pensacola, FL	060508-8
May 18, 2006	Tampa, FL	060508-7
June 14, 2006	Fort Lauderdale, FL	060508-2
Aug. 14, 2006	Fort Walton Beach, FL	070018

Cost: \$115

Coordinator: Carol Hinton, chinton@treeo.ufl.edu or 352/392-9570 x209

CEU: 0.4 FBPE PDHs (EXP 00074): 4.0

Solid Waste (PE's Only): 4.0

Times: 1:00 p.m. - 5:00 p.m.

This course satisfies the required Florida Board of Professional Engineers professional development hours (PDHs) in law and ethics. This class satisfies the four-hour requirement for Chapter 471, F.S. and the rules of the Board, Chapter 61G15 F.A.C.

Management of Leachate, Gas, Stormwater and Odor at Class I, II, and III Landfills

Mar. 20, 2006	Orlando, FL	060614
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Cost: \$275

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

Hours: 8

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D: 8.0

SWANA CEU: 5.0

Time: 8:00 a.m. - 5:00 p.m.

This 8-hour course covers the production and collection of Leachate and management of stormwater within a landfill, as well as liner systems and the importance of gas control. Topics on odor include: the source, testing for odors and record keeping.

Permit Required Confined Space Training

Feb 9, 2006	Gainesville, FL	060620
June 22, 2006	Gainesville, FL	060620-1
Nov 17, 2006	Tampa, FL	070727

Cost: \$295

Coordinator: Mari Kearn, mkearl@treeo.ufl.edu or 352/392-9570 x229

☐ Onsite training available ☐ Contact: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D/TS/MRF: 8.0

Time: 8:00 a.m. - 5:00 p.m.

This course is designed for students who are responsible for developing confined space training programs, or who are supervising contractors or employees performing entries. You apply your knowledge of the requirements of the standard, development of training programs, and use of specialized equipment and procedures. Topics include: hazard identification, training requirements, written program, rescue services and personal liability.

Pumps and Pumping

TBA

Cost: \$495

Coordinator: Mari Kearn, mkearl@treeo.ufl.edu or 352/392-9570 x229

CEU: 2.2

FBPE PDHs (EXP00074): 22.0

Solid Waste I II III/C&D/TS/MRF: 16.0

Time: Day Two - Day Three: 8:30 a.m. - 5:00 p.m.

This "how to" course addresses every aspect of pump operation, efficiency and maintenance to reduce pump problems as well as operating costs. You receive the fifth edition of the popular Pumps and Pumping, the only comprehensive pump manual designed specifically for water and wastewater applications.

Safety Awareness Training for Transfer Stations

Feb. 10, 2006	Gainesville, FL	060619
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Aug. 24, 2006	Gainesville, FL	070034
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Cost: \$295

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

☐ Onsite training available ☐ Contact: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste TS/MRF: 8.0

Time: 8:00 a.m. - 5:00 p.m.

This training will enable students to acquire the understanding, knowledge, and skills necessary for safely working in and around transfer stations. Special emphasis is placed on safety issues related to the operation and maintenance of equipment used to transfer bulk material. Course is available for on-site instruction.

Spotter Refresher 4-hour Training for Solid Waste Facilities

Jan. 18, 2006	Gainesville, FL	060636-1
Feb. 22, 2006	Gainesville, FL	060636-2
Apr. 25, 2006	Gainesville, FL	060637-1
May 17, 2006	Tampa, FL	060637-2
June 21, 2006	Gainesville, FL	060637-3
Aug. 23, 2006	Gainesville, FL	070030-1
Sep. 13, 2006	Sarasota, FL	070030-2
Oct. 25, 2006	Gainesville, FL	070031-1
Dec. 4, 2006	Gainesville, FL	070031-2

Cost: \$175

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

☐ Onsite training available ☐ Contact: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.4 FBPE PDHs (EXP00074): 4.0

Solid Waste I II III/C&D/TS/MRF/Spotter: 4.0

Time: 1:00 p.m. - 5:00 p.m.

This course will cover the spotter's role and responsibilities of managing the workforce/floor/yard and traffic control. Discussion this course will also include solid waste regulations, compliance & enforcement issues and personal health & safety.

Register online at www.treeo.ufl.edu
and click on "Solid Waste."

Stormwater Design and Permitting: An Introduction in Using Computers to Solve Stormwater Problems

Jan 23, 2006 Gainesville, FL 060663

Cost: \$425

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.7 FBPE PDHs (EXP00074): 7.0

Solid Waste I II III (PEs, EI, PG only): 7.0

Time: 8:30 a.m. - 5:00 p.m.

In this course, you learn how to use computer spreadsheet models to solve stormwater problems. Emphasis is on the permitting requirements of the Florida Water Management Districts and the Florida Department of Transportation. Hands-on computer course, free software included.

U.S. DOT Hazardous Materials/Waste Transportation

Mar 30, 2006 Tampa, FL 060654

Cost: \$325

Coordinator: Carol Hinton, chinton@treeo.ufl.edu or 352/392-9570 x209

CEU: 0.75 FBPE PDHs (EXP00074): 7.5

Solid Waste I II III/C&D/TS/MRF: 6.0; SWANA CEU: 5.0

Time: 8:00 a.m. - 4:30 p.m.

Get the training you need for all personnel involved in the preparation, documentation, packaging, labeling, shipping or transportation of hazardous materials! Topics include: special rules for "intrastate" commerce, over 300 changes to Table 172.101, hazard classes, placarding responsibilities, new document requirements, up-to-date final rulings from the Federal Register. Materials included in the fee: course manual, 2000 North American Emergency Response Handbook, Title 49 CFR Parts 100-185 (the DOT's regulations for hazardous materials transportation).

Train-the-Trainer For Environmental Occupations

Dec. 5-7, 2006 Gainesville, FL 060283

Cost: \$695

Coordinator: Karen Prine, kprine@treeo.ufl.edu or 352/392-9570 x214

CEU: 2.8 FBPE PDHs (EXP00074): 28.0

Solid Waste I II III/C&D/TS/MRF: 7.0

Time: Day One: 8:00 a.m. - 4:00 p.m.

Time: Day Two: 8:15 a.m. - 4:00 p.m.

Time: Day Three: 8:15 a.m. - 4:00 p.m.

This course is designed for business and industry personnel responsible for developing, delivering, evaluating and managing environmental training. Practical application exercises are used in conjunction with course materials to teach students how to design and deliver an effective environmental training program. Optional CIT/CET Exams are offered the next day at 8:00 a.m., following completion of the class.

Register online at www.treeo.ufl.edu
and click on "Solid Waste."

Train-the-Trainer Refresher

Dec. 7, 2006

Gainesville, FL

060494

Cost: \$250

Coordinator: Karen Prine, kprine@treeo.ufl.edu or 352/392-9570 x214

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Hours: 7

Time: 8:15 a.m. - 4:00 p.m.

This refresher course is specifically for Certified Environmental Trainers (CET) to meet a portion of their NESHTA certification maintenance renewal requirements every three years.

Online Solid Waste Courses

Hazardous Materials Awareness for Solid Waste Online

Online, Anytime 050598

Coordinator: Kate Ziemak, 352/219-3186

Cost: \$195

CEU: 0.5 FBPE PDHs (EXP00074): 5.0

Solid Waste I II III/C&D/TS/MRF: 5.0 Spotter: 2.0

An overview course (formerly titled "Health and Safety Training for Landfill Operations Online") designed to introduce participants to the major health and safety issues (and areas of regulation) applicable to this type of operation.

HazWoper 40-Hour Health & Safety Online

Online, Anytime 050139

Cost: \$895

Coordinator: Kate Ziemak, 352/219-3186

CEU: 4.0 FBPE PDHs (EXP00074): 40.0

Solid Waste I II III/C&D/TS/MRF: 8.0

This self-paced HazWoper education course on the Internet meets the OSHA/EPA training requirements for workers performing hazardous waste site functions in accord with the provisions of 29 CFR 1910.120. The regulation stipulates that employers at hazardous waste sites, and at many other "sites" as further defined by the regulation, shall ensure that all workers with the potential of chemical exposure will receive a minimum of 40 hours of waste site health and safety training and 24 hours of on-the-job training at the worksite.

HazWoper 8-Hour Refresher Online

Online, Anytime 050137

Cost: \$295

Coordinator: Kate Ziemak, 352/219-3186

CEU: 0.8 FBPE PDHs (EXP00074): 8.0

Solid Waste I II III/C&D/TS/MRF/Spotter: 4.0

This self-paced HazWoper education course on the Internet provides the necessary environmental health and safety training required for a Certificate of Completion that will permit the student to continue working at any site requiring HAZWOPER training. This course provides the equivalent of eight hours of refresher training.

UF/TREEO Online Courses Let you:

- Set your own schedule
- Avoid travel expenses
- Study at home and minimize time away from work

visit: www.treeo.ufl.edu/online

Two-hour Spotter Refresher Training Online

Online, Anytime 050563

Coordinator: Kate Ziemak, 352/219-3186

Cost: \$225

CEU: 0.2

Solid Waste I II III/C&S/TS/MRF/Spotter: 2.0

SWANA CEU: 1.0

This 2-hour, web based computer course provides an overview of spotter operations at landfills, including construction and demolition sites and transfer stations. Topics include: spotter responsibility, communication, traffic management, random load inspections, prohibited waste material, hazardous waste materials, construction and demolition debris facilities, personal safety and landfill fires.

Engineering Courses

Landfill Design and Construction

Apr. 10-14, 2006 Tampa, FL 060721

Cost: \$895

Coordinator: Dawn Jenkins, djenkin@treeo.ufl.edu or 352/392-9570 x227

Hours: 28; CEU: 3.2

FBPE PDHs (EXP00074): 32.0

Solid Waste I II III: 28.0; SWANA CEU: 8.5

Time Day One: 1:00 p.m. - 5:00 p.m.

Time Day Two - Day Three: 8:00 a.m. - 5:00 p.m.

Time Day Four: 8:00 a.m. - noon

This five-day course covers the essential elements of designing and building a landfill, including design examples for landfill liner and cover systems, geosynthetic properties, interpreting soil tests, geotextiles, leachate collection, settlement and stability issues. Solid waste managers, engineers, local government officials, and others interested in landfill design will benefit from this course.

Laws and Rules for Florida Engineers

Mar. 20, 2006 Orlando, FL 060508-6

Apr. 6, 2006 Panama City Beach, FL 060508-5

Apr. 7, 2006 Pensacola, FL 060508-8

May 18, 2006 Tampa, FL 060508-7

June 14, 2006 Fort Lauderdale, FL 060508-2

Aug. 14, 2006 Fort Walton Beach, FL 070018

Cost: \$115

Coordinator: Carol Hinton, chinton@treeo.ufl.edu or 352/392-9570 x209

CEU: 0.4; FBPE PDHs (EXP 00074) : 4.0

Gainesville Class: 3:00 pm - 7:00 pm

Ft. Lauderdale Class: 8:00 am - 12:00 noon

Times (Regular): 1:00 pm - 5:00 pm

This course satisfies the required Florida Board of Professional Engineers professional development hours (PDHs) in law and ethics. This class satisfies the four-hour requirement for Chapter 471, F.S. and the rules of the Board, Chapter 61G15 F.A.C.

Leachate and Landfill Gas Management System Design

May 22-23, 2006 Orlando, FL 060719

Cost: \$495

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 1.6 FBPE PDHs (EXP00074): 16.0

Solid Waste I II III: 16; SWANA CEU: 12

Time: 8:00 am - 5:00 pm

This two-day course focuses on the regulatory, analytical, design, and construction-related aspects of the two major by-products of modern landfills, namely landfill leachate and gas. Eight hours are devoted to each of these important topics. The presentations for each topic are organized similarly in that the important regulatory issues are first identified, followed by the introduction of analytical techniques for estimating and controlling leachate and landfill gas generation quantities. These background discussions form the necessary background to the hands-on engineering analyses and design presentations that follow. Relevant design steps and design equations will be presented and demonstrated and incorporated into a design example project. Following the presentations related to design, important construction, operation, maintenance, and monitoring topics will be presented. Each section will end with a presentation related to treatment technologies and potential beneficial reuse/recovery systems.

Stormwater Design and Permitting: An Introduction in Using Computers to Solve Stormwater Problems

Jan. 23, 2006 Gainesville, FL 060663

Cost: \$425

Coordinator: Dawn Jenkins, djenkins@treeo.ufl.edu or 352/392-9570 x227

CEU: 0.7 FBPE PDHs (EXP00074): 7.0

Solid Waste I II III (PEs, EI, PG only): 7.0

Time: 8:30 a.m. - 5:00 p.m.

In this course, you learn how to use computer spreadsheet models to solve stormwater problems. Emphasis is on the permitting requirements of the Florida Water Management Districts and the Florida Department of Transportation. Hands-on computer course, free software included.

To Register

Online: Visit www.treeo.ufl.edu and click on "Solid Wastes."

Mail or Fax: To pay by Check or Purchase Order, return registration form with payment, to the address listed at the bottom of the form, or fax your registration form to: 352/392-6910, 24 hrs.

Purchase Order: Government agencies may pay with a purchase order.

Fed ID# 59-6002052 REGISTRATION WILL BE CONSIDERED COMPLETE ONLY UPON RECEIPT OF BOTH REGISTRATION FORM AND PAYMENT IN U.S. DOLLARS. ALL REMITTANCES SHOULD BE MADE PAYABLE TO THE UNIVERSITY OF FLORIDA.

Services for Persons with Special Needs

Persons with disabilities who require special accommodations should contact Janet Touchton at 352/392-9570, ext. 212, at least 10 days prior to the course so that proper consideration can be given to the request.

Cancellation Policy

If you cannot attend, written notification must be received at least two working days prior to the course. You may transfer to another course, send a substitute, or receive a refund. In the event that a course is canceled, UF/TREEO is not responsible for non-refundable travel fares or lodging deposits.

Location and Accommodations

Participants are responsible for arranging their accommodations and travel. Special rates are available at the hotels listed. To receive the special rate, reservations must be made at least four weeks prior to the course and you must identify yourself as a participant of a UF/TREEO Course.

Hotel Information

Rates and availability subject to change without prior notice.

Gainesville: **Location:** University of Florida TREEO Center, 3900 SW 63rd Blvd., Gainesville, FL 32608, 352/392-9570.

Accommodations: **Cabot Lodge,** 3726 SW 40th Blvd., Gainesville, FL 32608
tel: 352/375-2400; toll free: 1-800-843-8735

\$65 Single/\$70 Double

Hampton Inn: 4225 SW 40th Blvd., Gainesville, FL 32608

tel: 352/371-4171, toll free: 1-800-426-7866, fax: 352/371-4234

\$71 Single/Double

Comfort Inn West: 3440 SW 40th Blvd., Gainesville, FL 32608

tel: 352/264-1771, fax: 352/264-9996

\$64.99 Double, \$69.99 King, \$79.99 - \$109.99 Suite

For hotels at other course locations, go to www.treeo.ufl.edu and click on "Locations." Please do not use internet map programs as they do not provide correct directions for the UF TREEO, Gainesville location.

www.treeo.ufl.edu

The University of Florida is an Equal Opportunity/Affirmative Action educational institution. Cost of brochure covered by participants' fees.

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Online registration for this course is available at www.treeo.ufl.edu

2006 Solid Waste Courses

REGISTRATION FORM 06-05

W

Course Title	Program #	Date	Fee

NAME: _____

POSITION: _____ COMPANY: _____

MAILING ADDRESS: _____ CITY: _____ ST: _____ ZIP: _____

BUSINESS PHONE: _____ FAX: _____ *E-MAIL: _____

* For confirmation and future TREEO course information.

Completed registration form and payment are needed to process your registration. Make payment in U.S. currency to: UNIVERSITY OF FLORIDA. Mail registration form and payment to:



UNIVERSITY OF FLORIDA TREEO CENTER
3900 SW 63RD BLVD.
GAINESVILLE, FL 32608-3848

Register one person per form. Photocopy if more forms are needed.

FEE (Check appropriate boxes): Fed ID#59-6002052

☐ Gov't. Purchase Order #: _____

☐ Check Enclosed in the amount of \$ _____

If paying by check or purchase order you may fax:
352/392-6910, 24 hrs. Registration by credit card; Visa,
MasterCard, or American Express accepted online via a
secure website: www.treeo.ufl.edu, click on 'Solid Waste'.

							2006											
Courses		III	C&D	Transfer	MRFs	Spotter	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Initial Operator	► Construction & Demolition Debris Landfill Short Course	16	16								Tampa 5/17-19							
	24-Hour Initial Training for Class I, II, III / C&D Operators	16	16					TREEO 2/22-24				TREEO 6/21-23					► Tampa 11/15-17	
	► SWANA-Manager of Landfill Operations [MOLO®]	16	16	8	8									Daytona 8/29-9/1				
	► SWANA-MOLO Exam ► SWANA-Recycle Sys Exam								Panama 4/4				Naples 7/27	Daytona 9/1			Tampa 11/16	
Initial Spotters	19-Hour Initial Training for Transfer Station & MRF Oper	10	10	8	8		TREEO 1/26-27			TREEO 4/13-14			Naples 7/27-28			TREEO 10/19-20		
	Basic Landfill Operations	8	8	8	8	8			Orlando 3/21									
	► Spotter Training for Solid Waste Facilities	8	8	8	8	8	TREEO 1/18	TREEO 2/22		TREEO 4/25	Tampa 5/17	TREEO 6/21		TREEO 8/23	Sarasota 9/13	TREEO 10/25		TREEO 12/4
	Spotter Training for Solid Waste Facilities-SPANISH	8	8	8	8	8		Orlando 2/1			Tampa 5/17			Sarasota 8/16		TREEO 10/25		
Continuing Education	Training for Spotters at C&D Sites, Landfills and TS	8	8	8	8	8											► Tampa 11/15	
	Groundwater Issues for Landfill Operators	8	8							TREEO 4/26								
	► Health & Safety Training for Solid Waste Workers	8	8	8	8	8				Wn Hav 4/12					Sarasota 9/14			
	Landfill Gas Safety Training: Nature, Hazards, Regs 1-5pm	4	4			4		TREEO 2/8										
	Landfill Gas and Leachate Systems	8	8														► Tampa 11/16	
	► Safety Awareness at Transfer Stations			8	8	8		TREEO 2/10						TREEO 8/24				
	Spotter Training for SWF-Refresher 1-5pm	4	4	4	4	4	TREEO 1/18	TREEO 2/22		TREEO 4/25	Tampa 5/17	TREEO 6/21		TREEO 8/23	Sarasota 9/13	TREEO 10/25		TREEO 12/4
	► Permit Required Confined Space Training	8	8	8	8			TREEO 2/9				TREEO 6/22					► Tampa 11/17	
	► Excavation and Trenching Competent Person	8	8									TREEO 6/23						
	Introduction to Electrical Maintenance	16	16	16	16			TREEO 2/21-23										
	► HazMat Chemistry for The Non-Chemist	8	8	8	8	8		TREEO 2/6								TREEO 10/23		
	► Chemical Compatibility and Storage	8	8	8	8	4		TREEO 2/7								TREEO 10/24		
	Hazardous Waste Regulations for Generators	4	4	4	4	4			Tampa 3/31									
	U.S. DOT Haz Materials/Waste Transportation	6	6	6	6				Tampa 3/30									
	FL Stormwater, Erosion and Sedimentation Control	12	12	8	4				TREEO 3/6-7									
	Management of Leachate, Gas, Stormwater and Odor	8	8						Orlando 3/20									
Engineers	Landfill Design and Construction	28								Tampa 4/10-14								
	Laws and Rules for Florida Engineers	4 hours for PEs only							Orlando 3/20	Panama ► 4/6	Tampa 5/18	Ft. Laud 6/14	Naples 7/27	Ft. WB 8/14				
	Leachate and Landfill Gas Management System Design	16									Orlando 5/22-23							
Online	Two-Hour Spotter Refresher	2	2	2	2	2												
	Hazardous Materials Awareness for Solid Waste	5	5	5	5	2												
	HazWoper 8hr Refresher Online	4	4	4	4	4												

To meet the training requirement of FAC 62-701 Operator(s) or spotter(s) must: Successfully complete an approved initial training course, be in attendance for entire course. Operators must pass exam - 70% or higher

► Courses offered in cooperation with SWANA - Florida Chapter
+ On-site training available

Classification	Initial Course	Continuing Education
Class I, II & III / C&D Landfill	24 hours	16 hours
Transfer Station / MRF	16 hours	8 hours
Spotter [of all type facilities]	8 hours	4 hours



Register online at www.treeo.ufl.edu
Information/agendas: www.treeo.ufl.edu or contact Dawn Jenkins, 352/392-9570 ext 227 or dienkins@treeo.ufl.edu

Initial Training

To meet the training requirements of Rule 62-701.320(15), F.A.C., operators and spotters must:

- Successfully complete an approved initial training course
- Be in attendance for entire course
- Pass exam - 70% or higher [operators only]

Facility Type

Continuing Education Contact Hours

Landfill - Class I, II, III	24 hours [formerly 20 hours]
Construction and Demolition Debris [C&D] Disposal Facility	24 hours [formerly 20 hours]
Transfer Station [TS]	16 hours
Material Recovery Facility [MRF]	16 hours
Land Clearing Debris Facility	no operator training required
Spotter of all Facilities	8 hours [formerly 8 hours]

- *Note that transfer stations and material recovery facilities are both currently regulated under Rule 62-701.710 as "waste processing facilities."*

LANDFILL OPERATOR

Approved Initial Training Courses and Providers are:

Currently offered

1. SWANA-Manager of Landfill Operations [MOLO®] - 30 hours
 - 1) Provider: Solid Waste Association of North America [SWANA] - National Chapter
Contact: Wynecta Fisher, 301/585-2898 or 1-800-GO-SWANA
wynectafisher@swana.org or www.swana.org
 - 2) Provider: SWANA - Florida Chapter and University of Florida TREEO Center
Contact: Dawn Jenkins, 352/392-9570 ext 127
djenkin@treeo.doce.ufl.edu or www.treeo.ufl.edu or www.swanaflorida.org
2. 24-Hour Initial Training Course for Landfill Operators (Class I, II, III and C&D Sites)
Provider: Kohl Consulting, Inc.
Contact: Chris Kohl, 407/847-0831 or docdump2@aol.com

No longer offered

3. Landfill University
4. Solid Waste Landfill Operator Short School [LOSS]
5. Solid Waste Facility Operations for Landfill Operators - 20 hours

No longer valid as an initial course in Florida

6. Solid Waste Landfills Correspondence Course - 20 hours

Initial Training.....Cont'

CONSTRUCTION AND DEMOLITION DEBRIS [C&D] LANDFILL OPERATOR

Approved Initial Training Courses and Providers are:

1. Construction & Demolition Debris Landfills: A Short Course for Operators – *24 hours*
Provider: SWANA – Florida Chapter and University of Florida TREEO Center
Contact: Dawn Jenkins, 352/392-9570 ext 127
djenkin@treeo.doce.ufl.edu or www.treeo.ufl.edu or www.swanaflorida.org
Note: Participants completing this course are also considered trained as a Spotter
2. 24-Hour Initial Training Course for Landfill Operators (Class I, II & III and C&D Sites)
Provider: Kohl Consulting, Inc.
Contact: Chris Kohl, 407/847-0831 or docdump2@aol.com
3. SWANA-Manager of Landfill Operations [MOLO®] – *30 hours*
Provider: SWANA – Florida Chapter and University of Florida TREEO Center
Contact: Dawn Jenkins, 352/392-9570 ext 127
djenkin@treeo.doce.ufl.edu or www.treeo.ufl.edu or www.swanaflorida.org

No longer offered

3. Solid Waste Landfill Operator Short School [LOSS]
4. Solid Waste Facility Operations for Construction and Demolition Operators
5. Construction & Demolition Debris Landfills: A Short Course for Operators

Initial TrainingCont'

TRANSFER STATION OPERATOR

Approved Initial Training Courses and Providers are:

1. SWANA-Managing Municipal Solid Waste Transfer Station Systems Course - *16 hours*
Provider: Solid Waste Association of North America [SWANA] - National Chapter
Contact: Wynecta Fisher, 301/585-2898 or 1-800-GO-SWANA
wynectafisher@swana.org or www.swana.org
2. 16-Hour Initial Training Course for Transfer Station Operators
Provider: Kohl Consulting, Inc.
Contact: Chris Kohl, 407/847-0831 or docdump2@aol.com
3. 19-Hour Initial Training Course for Transfer Station and MRF Operators
Provider: Kohl Consulting, Inc.
Contact: Chris Kohl, 407/847-0831 or docdump2@aol.com

MATERIAL RECOVERY FACILITY [MRF] OPERATOR

Approved Initial Training Courses and Providers are:

1. 16-Hour Initial Training Course for Materials Recovery Facilities
Provider: Kohl Consulting, Inc.
Contact: Chris Kohl, 407/847-0831 or docdump2@aol.com
2. 19-Hour Initial Training Course for Transfer Station and MRF Operators
Provider: Kohl Consulting, Inc.
Contact: Chris Kohl, 407/847-0831 or docdump2@aol.com

LAND CLEARING DEBRIS FACILITY OPERATOR

No Operator Training Requirements.

Initial Training.....Cont'

SPOTTER

Approved Initial Training Courses and Providers are:

- *Provider:* Consolidated Resource Recovery, Inc.
Contact: Toni Lubbers, 941/756-0977 or toni@resourcerecovery.com
Course(s):
 1. 8-hour Initial Training for Spotters
- *Provider:* Hewitt Contracting Company, Inc.
Contact: Greg Bryd, 352-787-5651, or Email: hewittsafety@aol.com or www.hewittcontracting.com
Course(s):
 1. Spotter Training Course - 8 Hour Initial Training
- *Provider:* Kohl Consulting, Inc.
Contact: Chris Kohl, 407/847-0831 or docdump2@aol.com
Course(s):
 1. Basic Landfill Operations
 2. 8 Hour Spotter Training for Class I, II, III Landfills, Waste Processing Facilities, and C&D Facilities
 3. Eight Hour Spotter Training for C&D Sites
 4. Eight Hour Training for Personnel at C&D Materials Recovery Facilities
 5. Landfill Operations and Waste Screening for Class I, II, III Sites
 6. Waste Screening and Operation Orientation for Transfer Station Personnel
- *Provider:* Solid Waste Association of North America [SWANA] - National Chapter
[A trained person from your site delivers the ordered on-site course.]
Contact: Wynecta Fisher, 1-800-GO-SWANA, wynectafisher@swana.org or www.swana.org
Course(s):
 1. Waste Screening at MSW Management Facilities
- *Provider:* University of Florida TREEO Center
Contact: Dawn Jenkins, 352/392-9570 ext 127, djenkin@treeo.doce.ufl.edu or www.treeo.ufl.edu
Course(s):
 1. Construction & Demolition Debris Landfills: A Short Course for Operators - 24 Hours
 2. Spotter Training at Solid Waste Facilities
 3. Training for Spotters at Landfills, C&D Sites and Transfer Stations
Also provided by JEA, Inc.
 4. Waste Screening and Identification for Landfill Operators and Spotters
Also provided by SCS Engineers
- *Provider:* Wetland Solutions
Contact: Charlie Miller, 850/484-0825 or wetlandsolutions@yahoo.com
Course(s):
 1. Spotter Training Plan for Land Clearing Debris Site

Initial Training.....Cont'

Course Reciprocity

- If you take one of the Initial operator courses for Class I, II, III landfills, then you are trained as an operator for Class I, II, III landfills and C&D.
- If you take one of the Initial operator courses for C&D, then you are trained as an operator for C&D only.
- If you take the Initial operator course for Transfer Stations, then you are trained as an operator for Transfer Stations only.
- If you take the Initial operator course for MRFs, then you are trained as an operator for MRFs only.
- If you take a combined Initial course for the TS/MRF, then you are trained as both.
- All approved Spotter courses are approved for training for any facility.

The Table below shows the types of job duties that can be performed when specific courses have been completed.

- If you are new to Florida, you must complete and pass the exam for one of the approved Initial courses. If you have successfully completed this, then see section "How to have Training Added to Your Record."
- If you have exceeded the three-year training period without completing the minimum number of hours of continuing education, you must start over by taking an approved initial course and pass the exam.

TYPES OF JOB DUTIES THAT CAN BE PERFORMED

	Landfill Operator	C&D Operator	MRF Operator	TS Operator	Landfill Spotter	C&D Spotter	MRF Spotter	TS Spotter	YT Spotter
Landfill Operator Training	X	X			X	X	X	X	X
C&D Operator Training		X			X	X	X	X	X
MRF Operator Training			X		X	X	X	X	X
TS Operator Training				X	X	X	X	X	X
Any Spotter Training					X	X	X	X	X

**TYPES OF TRAINING
COURSES**

Continuing Education [Contact Hours] Training

- Operators are required to obtain a minimum number of continuing education contact hours every 3 years after they have successfully completed an approved initial course and required exam.
- Spotters are required to have continuing education training every 3 years after completing an initial training course.

Facility Type

Landfill - Class I, II, III

C&D Disposal Facility

Transfer Station

Material Recovery Facility [MRF]

Land Clearing Debris Facility

Spotter

Continuing Education Contact Hours

16 hours every 3 years [formerly 15 hours]

16 hours every 3 years [formerly 15 hours]

8 hours every 3 years

8 hours every 3 years

No training required

4 hours every 3 years [formerly 8 hours]

Note: *If you are trained as a Class I, II, III landfill or C&D operator and as a transfer station operator, you will need 16 hours plus an additional 8 hours of continuing education every 3 years to maintain both Facility types. Many of the approved courses are approved for both facility types.*

A. Approved Courses

- Courses are listed on the Florida's Approved Solid Waste Management Facility Operator and Spotter Training Course List.
- Check each approved course for the number of hours given for each facility type.
 1. The approved list is available on UF TREEO website: www.treeo.ufl.edu.
 2. To request a list by fax or mail call: 352/392-9570 extension 127 or 130.
 3. Courses/Conferences/Seminars that are offered only once, will include the course date.
 4. Courses and course providers are listed in Alphabetical order. The number of contact hours awarded for each course is also provided.
 5. Sometime providers jointly offer training courses.
 6. Contact numbers for current training providers are listed at www.treeo.ufl.edu.

B. Continuing Education [CE]

1. Operator CE training is required every 3 years and starts with the date they passed the initial course/exam.
2. Spotter CE training is required every 3 years and starts with the date they take the initial course.
3. No CE credit will be given for courses taken before the initial course is successfully completed.
4. Initial hours are not counted toward continuing education.
5. An Initial course can be taken as a CE course only if it was not taken as the operator's or spotter's initial training.
6. No CE credit will be given for the same course taken within the same 3-year period.

Continuing Education [Contact Hours] TrainingCon't

7. No CE credit will be given for courses not listed on the Florida's Approved Solid Waste Operator Training Course List. List is available at www.treeo.ufl.edu or call 352/392-9570 ext 127 or 130. If a course is not listed, then see section "How to have Training Approved / New Courses."
8. To maintain your database records for the next 3-year period, the operator must have the minimum required number of contact hours.
9. Contact hours received above the minimum requirement do not rollover to the next 3 years. The new 3-year period starts at zero [0.0].
10. Operators who fail to achieve the required number of Contact Hours of CE by the end date of their 3-year period may be considered out of compliance with Rule 62-701.320(15), F.A.C. If the operator is a part of the Florida Solid Waste Operator/Spotter Database, they are then put on the Expired list of operators.
11. Expired operators may be reinstated to current status if they provide:
 - o Proof of training taken during the last 3-year period that meets the number of hours needed Include: Continuing Education Form and verification of attendance.
 - o Or, the operator may start over by taking an approved initial training course.
12. It is the operator's responsibility to submit the training forms and verification for upkeep on the landfill database, not the training provider's.
 - o Forms and verification are submitted to:
Dawn Jenkins, fax: 352/392-6910
or by mail to:
Solid Waste Operator Training
University of Florida- TREEO Center
3900 SW 63 Blvd
Gainesville, FL 32608
14. Operators and Spotters are required to keep a copy of all training submitted or taken, including any in-house training, and make it available to FDEP Inspectors.
15. See section "How to Have Training Added to your Transcript."

Who Approves Training

- Training courses are approved by the FDEP Division of Waste Management in Tallahassee.
- In-house training programs are approved by the FDEP District Offices as part of a facility's operation permit.
- The Solid Waste Management Training Committee provides technical guidance to FDEP staff in reviewing courses and programs.

If your facility wishes to receive approval for an innovative or complicated in-house training program, it may be advisable to ask the Training Committee to review and comment on your program prior to seeking Department approval in order to avoid delays in the permitting process.

If you would like to have your in-house training program added to the list of "approved courses" maintained by UF TREEO, you may submit it in accordance with the section "How to Have Training Approved."



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education & training



Solid Waste

[Introduction](#) [Courses](#) [Onsite Training](#)

APPROVED SOLID WASTE OPERATOR CONTINUING EDUCATION COURSE PROVIDERS

Approved Solid Waste Operator Continuing Education Course Providers

Solid Waste Courses

» **Kohl Consulting, Inc.**

Kissimmee, Florida
407/847-0831 phone/fax
docdump2@aol.com

» **Solid Waste Association of North America [SWANA-National Chapter]**

Silver Spring, Maryland
301/585-2898; 301/589-7068 fax
www.swana.org

Solid Waste Association of North America [SWANA-Florida Chapter]

Cocoa, Florida
1-800-626-4723
contact@swanaflorida.org

» **University of Florida TREEO Center**

Gainesville, FL
352/392-9570x127; 352/392-6910 fax
djenkin@treeo.ufl.edu
www.treeo.ufl.edu

» **Wetland Solutions**

Cantonment, FL
850/484-0825; 850/484-9459 fax
wetlandsolutions@yahoo.com

» offer approved Initial courses

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3900 SW 63rd Blvd. tel: (352) 392-9570 train@treeo.ufl.edu
Gainesville, FL 32608 fax: (352) 392-6910

UF | UNIVERSITY OF FLORIDA

Florida's Solid Waste Management Facility Operator and Spotter Approved Initial and Continuing Education Courses

Last updated 7/29/2005

Initial training courses can be taken for continuing education credit if the course was not taken as the initial training course.

The initial course can be retaken as continuing education credit during the second three-year training period.

Courses taken prior to your initial training does not count toward continuing education.

No continuing education credit will be given for the same course taken within the same 3-year period.

Class I, II, III Landfill Operators [Initial Training]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
30	SWANA - Manager of Landfill Operations Training Course [MOLO®]	SWANA	30				
160	SWANA - Manager of Landfill Operations [MOLO®]	SWANA-FL / UF TREEO	30	30			
195	24-Hour Initial Training Course for Landfill Operators (Class I, II and III and C&D Sites)	Kohl Consulting, Inc.	24				

Construction and Demolition Debris Operators [C & D] [Initial Training]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
200	Construction and Demolition Debris Landfills - A Short Course for Operators-24 hours	SWANA-FL / UF TREEO		24			
195	24-Hour Initial Training Course for Landfill Operators (Class I, II and III and C&D Sites)	Kohl Consulting, Inc	24	24			

Transfer Stations [Initial Training]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
196	16-Hour Initial Training Course for Transfer Station Operators	Kohl Consulting, Inc			16		
225	19-Hour Initial Training for Transfer Station and MRF Operators	Kohl Consulting, Inc			19	19	
42	Transfer Station Design & Operations	SWANA			16		
222	SWANA - Managing MSW Transfer Station Systems	Solid Waste Association of North America SWANA			16		

Materials Recovery Facilities [MRF] [Initial Training]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
225	19-Hour Initial Training for Transfer Station and MRF Operators	Kohl Consulting, Inc			19	19	
197	16-Hour Initial Training Course for Materials Recovery Facilities [MRFs]	Kohl Consulting, Inc				16	

Spotters [Initial Training]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
203	8 Hour Initial Training for Spotters at Class I, II, III Landfills, Waste Processing Facilities, and C&D Sites	Kohl Consulting, Inc.	8	8	8	8	8
219	8-Hour Initial Training for Spotters	Consolidated Resource Recovery, Inc.	8	8	8	8	8
97	Basic Landfill Operations	Kohl Consulting, Inc.	8	8	8	8	8
91	Eight Hour Spotter Training for C&D Sites	Kohl Consulting, Inc.	8	8	8	8	8
121	Eight-Hour Training for Personnel at C&D Materials Recovery Facilities	Kohl Consulting, Inc.	8	8	8	8	8
111	Landfill Operations and Waste Screening for Class I, II & III Sites	Kohl Consulting, Inc.	8	8	8	8	8
331	Safety Issues for Solid Waste Management Facilities	Kohl Consulting, Inc.	8	8	8	8	8
257	Spotter Training Course – 8 Hours Initial Training	Hewitt Contracting Company, Inc.	8	8	8	8	8
248	Spotter Training for Solid Waste Facilities	UF TREEO	8	8	8	8	8
214	Spotter Training Plan for Land Clearing Debris Site	Wetland Solutions	8	8	8	8	8
147	Training for Spotters at Landfills, C&D Sites and Transfer Stations	JEA/TREEO	8	8	8	8	8
36	Waste Screening & Identification For Landfill Operators and Spotters	TREEO	8	8	8	8	8
122	Waste Screening and Operation Orientation for Transfer Station Personnel	Kohl Consulting, Inc.	8	8	8	8	8
9	Waste Screening at MSW Management Facilities {On-site Delivery}	SWANA	10	10	10	10	10

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					

204	1-Hour Overview of Health & Safety Issues at Solid Waste Facilities	Kohl Consulting, Inc	1	1	1	1	
105	11th Annual SE Recycling Conference & Trade Show [3/1-4/98]	SE Recycling	8	8			
197	16-Hour Initial Training Course for Materials Recovery Facility (MRF) Operators	Kohl Consulting, Inc.	10	10	8	8	
196	16-Hour Initial Training Course for Transfer Station Operators	Kohl Consulting, Inc.	10	10	8	8	
52	17-701 & 17-703 Update [6/17/94]	SWANA - FL	4				
225	19-Hour Initial Training Course for Transfer Station and MRF Operators	Kohl Consulting, Inc	10	10	8	8	
282	24-Hour HazWoper Technician Training	Safety Training & Consulting	6	6	6	6	
195	24-Hour Initial Training Course for Landfill Operators (Class I, II, III, and C&D Sites)	Kohl Consulting, Inc.	16	16			
169	40-hour Train-the-Trainer Program for Hazardous Waste Operations and Emergency Response Program	Chinn Training	8	8	8	8	
314	8-hour Bioreadiness Training	USF Center for Biological Defense	8	8	8	8	
283	8-Hour DOT HM-126 Training	Safety Training & Consulting	4	4	4	4	
167	8-Hour HazWoper OSHA Refresher	FDEP / All Pro	4	4	4	4	
280	8-Hour HazWoper Refresher	USF / ERC	4	4	4	4	
290	8-Hour HazWoper Refresher (same as #266)	Sunshine ERC	4	4	4	4	4
144	8-Hour HazWoper Refresher Training	Stephen Mraz	4	4	4	4	
307	8-Hour HazWoper Refresher Training	Emergency Response Educators and Consultants, Inc.	4	4	4	4	4
371	8-Hour HazWoper Refresher	WPB Fire Rescue Special Op	4	4	4	4	4
203	8-Hour Initial Training Course for Spotters at Class I, II, III Facilities, Waste Processing Facilities, and C&D Facilities	Kohl Consulting, Inc.	8	8	8	8	8
219	8-Hour Initial Training for Spotters	Consolidated Resource Recovery, Inc.	8	8	8	8	8
288	A Little is Enough: Reducing Man-Made mercury Impacts	UF TREEO Center	2	2	2	2	2
357	Adult First Aid/CPR	American Health & Safety Institute	4	4	4	4	2
270	Advanced Topics in Compost Utilization	UF IFAS Extension Office	2	2		2	2
182	Air Compliance and LGF System Operation [11/9-10/00]	SCS Engineers	16				
171	An Overview of Solid Waste Technologies and Waste Screening Review	Kohl Consulting, Inc.	2	2	2	2	2
71	Asbestos Awareness Course for Landfill Operators	UF TREEO Center	4	4	4	4	4
127	Asbestos Awareness Refresher Course for Landfill Operators	UF TREEO Center	2	2	2	2	2
236	Authorized Entrant for Permit - Required Confined Spaces	UF TREEO Center	16				
145	Avoiding OSHA Citations and Liabilities in Florida [6/29/99]	Lorman Education Services	6				
143	Basic Confined Space [8/17/99]	North Florida Environmental Services	8	8	8	8	8
97	Basic Landfill Operations	Kohl Consulting, Inc.	8	8	8	8	8
253	Basic Math for Water and Wastewater Operations at FW&PCOA Annual or Regional Short School	Michael Switzer	5	5	5	5	
339	Bioreactor Landfill Workshop	FCSHWM	8				
313	Bioreadiness for Government Professionals	USF Center for Biological Defense	2	2	2	2	2
72	Bird and Wildlife Management at Solid Waste Mgmt Facilities	UF TREEO Center	8	8	8		
206	Bird Management at Solid Waste Facilities	UF TREEO Center	4	4	4		
312	Building Material ReUse Workshop	SWIX, FDEP, UF-Rinker	3	6	3	3	
318	C&D Operator/Spotter Training Refresher	Kohl Consulting, Inc.	4	4	4	4	4
285	Chemical Compatibility and Storage	UF TREEO Center	4	4	4	4	4
233	Chemicals That You Work With	Charlotte County	2	2	2	2	2

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
391	Chemical Spill Response Training	Dept of Agriculture and Consumer Services	8	8	8	8	8
12	Chemistry for Environmental Professionals	UF TREEO Center	8	8	8	8	8
37	Chemistry for Environmental Professionals (Same as #12)	UF TREEO Center	8	8	8	8	8
386	Community Hurricane Preparedness - Online	Emergency Management Institute	7	7	7	7	
16	Complete Preventative Maintenance: Using New Technologies [No longer offered]	UF TREEO Center	13				
278	Compost Tour and Hands-On Training [5/20/03]	UF - IFAS Extension Office	3				
35	Confined Space Entry & Assessment	Applied Associates International	8	8	8	8	
18	Confined Space Entry & Assessment [no longer offered]	UF TREEO Center	20				
29	Confined Space Entry & Rescue	South Tech Fire Academy	40	40	40	40	
181	Confined Space for Private Industry	Sarasota Co. Tech	24	24	24	24	
80	Construction and Demolition Debris Landfills - A Short Course for Operators [no longer offered] (See #200)	UF TREEO Center/ SWANA - FL	20	20			
200	Construction and Demolition Debris Landfills - A Short Course for Operators - 24 hours	UF TREEO Center/ SWANA - FL	16	16			
103	Construction and Demolition Waste Recycling	UF TREEO Center	7	7		7	7
114	Debris Management G202	FEMA/FL Div	12	12	12	12	12
136	Debris Management-Advanced Course (G202-Advanced)	FDEP/FEMA	8	8	8	8	8
161	Design of Lateral Drainage Systems for Landfills [3/14/00]	Tenax	5				
108	Developing a Usable Operations Plan	Kohl Consulting, Inc.	4	4	4	4	4
130	Eight Hour Confined Space Training Course	Charles Davis	8	8	8	8	8
91	Eight Hour Spotter Training for Construction & Demolition Sites	Kohl Consulting, Inc.	8	8	8	8	8
287	Emergency Response Operations for Incident Command	UF TREEO Center	4	4	4	4	
40	Environmental Drilling, Well Installation & Sampling	Nielson Environmental Field School, Inc.	16	16			
316	Environmental Impacts of Preservative Treated Wood Conference [2/8-11/04]	UF FICISS	12	12		6	
271	Environmental Management Systems - Introduction	UF TREEO Center	2	2	2	2	
175	Environmental Management Systems - Overview	UF TREEO Center	4	4	4	4	
176	Environmental Management Systems Internal Audit Procedures	UF TREEO Center	4	4	4	4	
384	Environmental Management System Webcast	UF TREEO	1	1	1	1	
43	Environmental Sampling Laboratory & Data Analysis [12/12-12/94]	Executive Enterprises, Inc.	12				
100	Excavation, Trenching: Competent Person Training	UF TREEO Center	8	8			
284	Excavation, Trenching: Competent Person Training 16-Hour	UF TREEO Center	16	16			
66	Exposure to Bloodborne and Waterborne Pathogens [No longer offered]	UF TREEO Center	8				
167	FDEP 8-Hour HazWoper OSHA Refresher [5/3/00]	FDEP / All Pro	4	4	4	4	
199	FDEP 8 Hour HazWoper OSHA Refresher [5/1/01]	FDEP	4	4	4	4	
228	FDEP 8 Hour HazWoper OSHA Refresher [5/22/02]	FDEP / Kenton Brown	4	4	4	4	
232	FDEP 8 Hour HazWoper OSHA Refresher [5/22/02]	FDEP [Bottcher/Knox]	4	4	4	4	
266	FDEP 8 Hour HazWoper OSHA Refresher [5/5/03, 5/9/03]	FDEP	4	4	4	4	
361	FDEP 8 Hour HazWoper OSHA Refresher [12/04]	FDEP	4	4	4	4	
48	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [4/30/96]	FDEP	5				
88	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/5-7/97]	FDEP	5				
107	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/4-6/98]	FDEP	7	7	7	7	
134	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/3-5/99]	FDEP	5	5	5	5	

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
226	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/20-21/02]	FDEP	5	5	5	5	
264	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/5-6/03]	FDEP	5	5	5	5	
360	FDEP Annual HHW-SQG Workshop & 2004 NAHAMMA Conf [12/04]	FDEP & NAHAMMA Conf	5	5	5	5	5
366	FDEP/NAHAMMA Behavior Change Training [12/7/04]	FDEP & NAHAMMA Conf	4	4	4	4	
367	FDEP/NAHAMMA Identification of Unknowns and Chemistry for Non-Chemists Training [12/10/04]	FDEP & NAHAMMA Conf	4	4	4	4	4
267	FDEP DOT 4 Hour Awareness Training [5/5/03, 12/04]	FDEP	2	2	2	2	2
268	FDEP HHW Facility Design [5/9/03]	FDEP	4	4	4	4	4
54	FDEP HHW & Conditionally Exempt SQG [5/3-5/95]	FDEP	14				
59	FDEP HHW & Conditionally Exempt SQG [5/1/96]	FDEP	5				
84	FDEP HHW & Conditionally Exempt SQG [5/5-7/97]	FDEP	5				
106	FDEP HHW & Conditionally Exempt SQG [5/6-8/98]	FDEP	5	5	5	5	
135	FDEP HHW & Conditionally Exempt SQG [5/5-7/99]	FDEP	5	5	5	5	
166	FDEP HHW & Conditionally Exempt SQG [5/1-3/00]	FDEP	5	5	5	5	
198	FDEP HHW & Conditionally Exempt SQG [4/30-5/1/01]	FDEP	5	5	5	5	
227	FDEP HHW & Conditionally Exempt SQG [5/22-24/02]	FDEP	5	5	5	5	
265	FDEP HHW & Conditionally Exempt SQG [5/7-8/03]	FDEP	5	5	5	5	5
330	FDEP SOP Sampling Training for Groundwater, Surface Water and Wastewater	UF TREEO Center	7	7			
32	Field Sampling Short School [7/22-24/91]	Environmental Technology Center	22				
110	Fires at Landfills	Kohl Consulting, Inc.	2	2		2	
291	Fleet Management	Fleet Solutions	4	4	4	4	
293	Fleet Management and Predictive Maintenance	Fleet Solutions	8	8	8	8	
377	Florida Landfill Gas to Energy Symposium	Florida Energy Office	5	5			
273	Florida Master Naturalist Program - Florida Freshwater Wetlands Systems	UF IFAS Extension Office	4	4	4	4	
289	Florida Stormwater and Erosion Control and Sedimentation Inspector Training Program (same as #203)	METRA-North, UF TREEO, FDEP	12	12	8	4	
155	Four Hour Spotter Orientation for Class I, II and III Supervisors	Kohl Consulting, Inc.	4	4	4	4	4
156	Four Hour Spotter Orientation for Class I, II, and III Landfills	Kohl Consulting, Inc.	4	4	4	4	4
119	Four Hour Spotter Training Refresher for Construction & Demolition Sites	Kohl Consulting, Inc.	4	4	4	4	4
113	Full Cost Accounting for Municipal Solid Waste Management [2/17/98]	Terra Tech EM Inc	6				
120	Fundamentals of Operations for MRF Facilities Personnel	Kohl Consulting, Inc.	8			8	
274	Fundamentals of Slope Stability	UF TREEO Center	16	16			
271	General Environmental Workshop [Feb-Mar 2003]	METRA	4	4	4	4	4
154	Geosynthetics for Advanced Solutions [11/4/99]	GSE Lining Tech	6				
338	Governor's Hurricane Conference - 2004 [Debris Management track-only]	Florida Dept of Community Affairs	6	6	6	6	6
393	Governor's Hurricane Conference - 2005	Governor's Hurricane Conference	7	7	7	7	
152	Groundwater Issues for Landfill Operators [No longer offered]	UF TREEO Center	6	6			
308	Groundwater Issues for Landfill Operators - 8 Hours [Effective 11 2003-]	UF TREEO Center	8	8			
17	Groundwater Monitoring, Analysis and Data Interpretation	UF TREEO Center	12	12			
76	Groundwater Monitoring, Requirements and Techniques for Landfills	Kohl Consulting, Inc.	2	2			
101	Hazard Communications Course	Escambia County Emergency Prep	4	4	4	4	4
85	Hazardous Material and Site Investigations	EnSafe	6	6	6	6	6
82	Hazardous Material Chemistry for Non-Chemist [1/18/95]	St. Petersburg Junior College	7				
286	Hazardous Materials Chemistry for Non-Chemist	UF TREEO Center	8	8	8	8	
131	Hazardous Material Recognition Awareness Level Refresher [3/1/96]	Citrus County	4				

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
81	Hazardous Material Transportation [no longer offered]	UF TREEO Center	4				
304	Hazardous Materials Awareness for Solid Waste Online	UF TREEO Center	5	5	5	5	2
50	Hazardous Materials Awareness Training [1/25/94]	Citrus County	8				
102	Hazardous Materials in Construction & Demolition Waste	UF TREEO Center	4	4			
224	Hazardous Materials in Construction & Demolition Waste OnLine	UF TREEO Center	4	4			
86	Hazardous Materials Incident Awareness Level Training [2/5/97]	Escambia County Emergency Prep	8	8	8	8	8
356	Hazardous Materials Incident Response Operations (165.5)	Kenton Brown	8	8	8	8	4
70	Hazardous Materials Management Conference [11/6-9/96]	International City & County Mgmt Associate	12				
98	Hazardous Materials Transportation Seminar [5/7-8/97]	City Environmental Services, Inc of Florida	5	5	5		
34	Hazardous Waste & Emergency Response	Applied Associates International	8	8	8	8	8
53	Hazardous Waste Management for Government Employees [9/95, 10/95]	UF TREEO Center	6				
60	Hazardous Waste Mgmt 40 CFR 261-265 [4/17/96]	Occupational Safety Training, Inc.	8				
99	Hazardous Waste Operations & Emergency Response	Sterling Fibers/ESP	3	3	3		
188	Hazardous Waste Operations Emergency Response Refresher	Orange Co. Environmental Protection Division	4	4	4	4	
379	Hazardous Waste Operations & Emergency Response Site Supervision 8 Hour Course	USF Sunshine ERC	4	4	4	4	2
63	Hazardous Waste Regulations for Generators	UF TREEO Center	4	4	4	4	4
20	Hazardous Waste Training for Solid Waste Managers [7/16/93]	SWANA - FL	5				
217	HazWoper 24-Hour Moderate Risk Online	UF TREEO Center	6	6	6	6	3
216	HazWoper 40-Hour OSHA Health & Safety Online	UF TREEO Center	8	8	8	8	
218	HazWoper 8-Hour Refresher Online	UF TREEO Center	4	4	4	4	4
269	HazWoper 8 Hour OSHA Refresher	Gulf Coast Industrial Services Inc.	4	4	4	4	4
115	HazWoper Material Control & Emergency Response	Air Safe	8	8	8	8	4
170	Health & Safety Issues for Solid Waste Management Facilities	Kohl Consulting, Inc.	8	8	8	8	4
281	Health and Safety for Solid Waste Workers	UF TREEO Center	8	8	8	8	8
69	Health and Safety Training for Hazardous Materials: 40-Hour OSHA Compliance Course	UF TREEO Center	8	8	8	8	
62	Health and Safety Training for Hazardous Materials: 8 hour OSHA Refresher	UF TREEO Center	4	4	4	4	2
223	Health and Safety Training for Landfill Operations OnLine [no longer offered 11/03, see course #304]	UF TREEO Center	5	5	5	5	2
149	Health and Safety Training for Landfill Operations	UF TREEO Center	5	5	5	5	2
295	Heavy Equipment Operator Training - 4 hour	Fleet Solutions	4	4	4	4	
201	Hiring and Retaining Good Employees	UF TREEO Center	2	2	2	2	
33	Household Hazardous Waste [6/30/94]	Care Environmental Corp.	4				
306	Household Hazardous Waste Training Workshop	Charlotte County Solid Waste	4	4	4	4	4
397	Household Hazardous Waste Training Workshop [June 2005]	Charlotte County Solid Waste	4	4	4	4	4
209	Hurricane Preparedness and Post Disaster Recovery Workshop [8/10/01]	Dewberry & Davis LLC	8	8	8	8	8
19	Hydrogeology: Applications of Fundamental Concepts & Field Techniques to Florida Groundwater Investigations [No longer offered]	UF TREEO Center	20	20			
11	Inspection Procedures for Agri-chemical Containers offered for Recycling [No longer offered]	Dept. of Agriculture & Consumer Services	1				
44	Inspection Procedures for Agri-chemical Containers offered for Recycling [Pesticide] [No longer offered]	Institute of Food & Agriculture Science [IFAS]	1				
129	Inspector's Handbook for Construction Projects	Hillsborough County Solid Waste	7				
151	Integrated Management Course: Hurricane Recovery and Mitigation	FEMA/EMI	7	7	7	7	
37	Introduction to Electrical Maintenance [prior to 1/1/02]	UF TREEO Center	7				

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
212	Introduction to Electrical Maintenance [taken after 1/1/02]	UF TREEO Center	16	16	16	16	
14	Introduction to Groundwater: Contamination, Investigation, & Remediation Assessment	UF TREEO Center	13	13			
124	Landfill Compaction Training School [prior to 1/1/02]	Caterpillar & Ringhaver Equipment	5	5			
229	Landfill Compaction Training School - 8 hours [taken after 1/1/02]	Caterpillar & Ringhaver Equipment	8	8			
75	Landfill Compliance Inspections	Kohl Consulting, Inc.	2	2			2
157	Landfill Design and Construction	UF TREEO Center	28				
4	Landfill Design: Cell Design & Construction [3/9/92]	UF TREEO Center	14				
6	Landfill Design: Closure & Long Term Care [5/19/92]	UF TREEO Center	15				
2	Landfill Design: Conceptual Design Operations & Monitoring [1/12/92]	UF TREEO Center	14				
78	Landfill Design: Landfill Design and Construction [5/5-9/97], [3/27-30/00]	UF TREEO Center	28				
5	Landfill Design: Leachate & Gas Management [3/11/92]	UF TREEO Center	15				
79	Landfill Design: Leachate and Gas Management System Design [6/10-12/97]	UF TREEO Center	21				
3	Landfill Design: Liner Systems Materials Installation & Quality Assurance [2/11/92]	UF TREEO Center	14				
1	Landfill Design: Planning & Permitting [1/21/92]	UF TREEO Center	14				
77	Landfill Design: Planning and Permitting for Solid Waste Management [4/8-9/97]	UF TREEO Center	16				
179	Landfill Gas & Energy: Alternative Uses [9/25-27/00]	CDM, Inc.	8				
49	Landfill Gas & Leachate Systems	UF TREEO Center / SCS Engineers	8	8			
172	Landfill Gas Collection and Control Systems [8/19-20/99]	CDM, Inc.	8				
276	Landfill Gas Collection and Control Systems Operator Training [9/2002]	Waste Management.	12				
83	Landfill Gas NSPS Workshop [7/15/96]	FDEP	6				
67	Landfill Gas NSPS Workshop [7/9/96]	SWANA - FL	4				
311	Landfill Gas Safety Training Program - Nature, Hazards, Regulations, Response	UF TREEO Center / SCS Engineers	4	4			4
57	Landfill Gas System Design- A Practical Approach [6/14-15/94]	Landfill Control Technologies	8				
89	Landfill Gas: How to Profit From the New Mandates [6/17/97]	FDEP	7				
194	Landfill Operating Issues for Class I, II, III and C&D Sites	Kohl Consulting, Inc.	8	8			8
260	Landfill Operation Online	UF TREEO Center	16	16			
261	Landfill Operation	UF TREEO Center	16	16			
111	Landfill Operations and Waste Screening for Class I, II & III Sites	Kohl Consulting, Inc.	8				8
58	Landfill Operator Education (Landfill Mining and Landfill Gas and Leachate Mgmt) [3/22/96]	SWANA - FL	4				
168	Landfill Service School (Leachate Pumps and Controls School) [3/25-26/99]	EPG Companies	7	7			
118	Landfill Wildlife Training Course	Applied Technology & Mgmt, Inc - ATM/UF TREEO Center	4	4			
277	Laws and Rules for Florida Engineers - *only for PEs	UF TREEO Center	4				
158	Leachate and Gas Management System Design [5/9-10/00]	UF TREEO Center	12				
340	Leachate and Landfill Gas Management System Design-2004	UF TREEO Center	16				
387	Low-Flow Ground Water Sampling and Florida SOPs	STL & QED and FDEP	5	5			
125	Management of Leachate, Gas, Stormwater and Odor at Class I, II, III Landfills	Kohl Consulting, Inc.	8	8			
249	Management of Special Waste for SWM Facility Operators	Kohl Consulting, Inc.	4	4	4	4	4
394	Managerial Decision-Making and Problem-solving in Government Organizations	Eglin Air Force Base	7	7			
389	Map and Plan Reading Class	Sarasota Co. Tech	5	5	5	5	5
333	Mathematics for Landfill Operators	Wetland Solutions	8	8			
109	Measurements and Calculations for Landfill Operators	Kohl Consulting, Inc.	5	5			

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
38	Mechanical Maintenance (Pumps and Pumping) (prior to 1/1/02) (see #213)	UF TREEO Center	7				
140	Meeting the Challenges of Environmental Liability with Case Studies in Solid Waste [6/16/99]	SWANA - FL	4				
128	Methods of Erosion and Sedimentation Control for Construction Sites	UF TREEO Center/FDEP	6	6			
390	MicroPurge Low-Flow Purging and Groundwater Sampling	The Nielsen Environmental Field School	8	8			
208	NPDES Phase II Inspector Certification Course	University of Florida -- T2 Center	12	12	8	4	
180	NUCA Competent Person Training	Sarasota Co. Tech	8	8			
364	Odor Control at Class I II III	SWA PBC	8				
10	On Site Operations Personnel [11/91]	SWANA - FL					
332	Operational Techniques and Compliance Inspections for Landfills	Wetland Solutions	8	8			
352	Operator Safety on Heavy Equipment	Ring Power	4	4	4	4	4
395	Organics Committee Workshop	FOR A/Force				3	
177	OSHA 40-Hour Course	R. Cooley	8	8	8	8	
165	OSHA 8-Hour HazWoper Annual Refresher [8/25/00]	University of North Florida Safety America	4	4	4	4	2
359	OSHA 8-Hour HazWoper Annual Refresher -Online	Compliance Solutions	4	4	4	4	2
142	OSHA 8-Hour Refresher for Hazardous Waste Operations and Emergency Response	FDEP/Jamson	4	4	4	4	2
68	OSHA Update Seminar [8/7/96]	J.J. Keller & Associates, Inc.	6				
183	Overview of Class I Landfill Operations and Waste Screening	Kohl Consulting, Inc.	3	3			3
92	Overview of Solid Waste Management Technologies	Kohl Consulting, Inc.	3				
184	Overview of Transfer Stations Operations and Waste Screening Review	Kohl Consulting, Inc.			3	3	3
301	Overview of Transfer Stations Operations and Waste Screening Review	Kohl Consulting, Inc.			4	4	4
15	Overview Understanding the Planning & Training Requirements of Big 3: OSHA, EPA, DOT (Regulatory Overview)	UF TREEO Center	7				
192	Pedestrian, Vehicles and Equipment Safety at Transfer Stations	Kohl Consulting, Inc.			2	2	2
186	Pedestrian, Vehicles and Equipment Safety in the Landfill	Kohl Consulting, Inc.	2	2			2
104	Permit Required Confined Space Training	UF TREEO Center	8	8	8	8	
388	Permit Required Confined Space Training	Jones Edmunds & Associates	5	5	5	5	5
96	Personnel Law Up-date [12/11-12/96]	Council on Education in Management	5				
372	Phase I and II Environmental Site Assessment	Florida Environmental Assessor Association (FEAA)	2				
239	Pollution Prevention and Environmental Essentials Conference	UF TREEO Center	5	1	5	5	
362	Pollution Prevention Conference [8/4-6/2004]	UF TREEO Center	2	1			
292	Predictive Maintenance	Fleet Solutions	4	4	4	4	
230	Proper Maintenance of Heavy Equipment and Safety	Caterpillar & Ringhaver Equipment	3	3	3	3	3
153	Pump Maintenance [4/13-14/00]	National Tech Transfer	7				
213	Pumps and Pumping (taken after 1/2/02)	UF TREEO Center	16	16	16	16	
237	Recycle Organics 2002	University of Florida - IFAS	4	4	4	4	
280	Recycle Florida Today 10 th Annual Conference [6/3-6/03]	Recycle Florida Today	5	4	5	5	
380	Recycle Florida Today 2004 Annual Conference - 6/4-6/04	Recycle Florida Today				3	
381	Recycle Florida Today 2005 Annual Conference - 6/6-8/05	Recycle Florida Today				3	
327	Recycle Florida Today 2004 Issues Forum [2/04]	Recycle Florida Today			8		
373	Recycle Florida Today 2005 Issues Forum [2/23-24/05]	Recycle Florida Today	4	4	4	4	
90	Recycling Coordinator Training Course 1997 (Basic Recycling Training) [5/19-21/97]	UF TREEO Center	8	8			

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
137	Recycling Coordinator Training Course 1999	UF TREEO Center	8	8			
205	Recycling Coordinators Training Course 2001 [8/2--24/01]	SWANA - FL	8	8			
146	Recycling Disaster Debris [8/6/99]	University of Central Florida / Engineering	6	6	6	6	6
193	Safe Operating Issues for Transfer Stations	Kohl Consulting, Inc.			2	2	
309	Safety Awareness Training for Transfer Stations	UF TREEO Center			8	8	
331	Safety Issues for Solid Waste Management Facilities-4 hour	Kohl Consulting, Inc.	4	4	4	4	4
365	Safety Issues for Solid Waste Management Facilities-8 hour	Kohl Consulting, Inc.	8	8	8	8	8
358	Safety Issues for Transfer Station and Landfill Operators	Kohl Consulting, Inc.	4	4	4	4	4
123	School/University Advanced Recycler Training Course [10/20-21/98]	UF TREEO Center	7	7			
7	Site Monitoring at Solid Waste Facilities	SWANA - FL	10				
139	Solid Waste Facility Operations for Construction and Demolition Operators [No longer offered] (See #196)	Kohl Consulting, Inc.		20			
138	Solid Waste Facility Operations for Landfill Operators [No longer offered] (See #196)	Kohl Consulting, Inc.	20				
41	Solid Waste in Florida's Small Counties Workshop	Florida Counties Foundation & the Florida Institute of Government	4				
21	Solid Waste Landfill Operators Short School [No longer offered]	UF TREEO Ctr/SWANA - FL	20				
28	Solid Waste Landfills Correspondence Course (course # C240-A180)	University of Wisconsin	20	20			
22	Solid Waste Management: Managing Special Waste [5/19/92]	UF TREEO Center	6				
55	Solid Waste Regulatory Review Workshop [3/10/95]	SWANA - FL	3				
301	Spotter Safety and Waste Control at Landfills	Kohl Consulting, Inc.	4	4			4
300	Spotter Safety and Waste Control at Transfer Stations	Kohl Consulting, Inc.			4	4	4
257	Spotter Training Course - 8 Hours Initial Training	Hewitt Contracting Company, Inc.	8	8	8	8	8
263	Spotter Training for Solid Waste Facilities Refresher	UF TREEO Center	4	4	4	4	4
248	Spotter Training for Solid Waste Facilities	UF TREEO Center	8	8	8	8	8
378	Spotter Training for Solid Waste Facilities - Spanish	UF TREEO Center	8	8	8	8	8
214	Spotter Training Plan for Land Clearing Debris Site	Wetland Solutions	8	8	8	8	8
375	Spotter Training Plan for Land Clearing Debris Site 4-Hour Refresher	Wetland Solutions	4	4	4	4	4
150	Storm Water Management Training	S2Li	4				
315	Stormwater Design and Permitting: An Introduction in Using Computers to Solve Stormwater Problems	UF TREEO Center	7	7			
329	Stormwater Control and Florida Inspection Certification (same as 202& 289)	UF TREEO Center	12	12			
202	Stormwater Inspector Certification Course	Sarasota Co. Tech	12	12	8	4	
39	Stormwater Management for Landfills [No longer offered]	UF TREEO Center	8				
370	Stormwater Management at Solid Waste Facilities	Jones Edmunds & Associates	8	8	8	8	
56	Successfully Contracting for Solid Waste Services [7/14/95]	SWANA - FL	4				
61	Successfully Contracting Solid Waste Services	UF TREEO Center / SCS Engineers	4				
319	SWANA E-Seminar: What is Single Stream [1/7/04]	SWANA				1	
320	SWANA E-Seminar: Single Stream in Action [1/21/04]	SWANA				1	
321	SWANA E-Seminar: Heavy Metals in Landfills [2/4/04]	SWANA	1	1			
322	SWANA E-Seminar: Bioreactors - Next Generation Landfills [2/11/04]	SWANA	1				
323	SWANA E-Seminar: Landfill Gas and Micro-Turbines [2/18/04]	SWANA	1				
334	SWANA E-Seminar: Special Waste Mesa County [3/3/04]	SWANA			1	1	
335	SWANA E-Seminar: SWM - SPSA Chesapeake VA [3/10/04]	SWANA			1	1	
336	SWANA E-Seminar: Marketing - City of Hamilton [3/17/04]	SWANA			1	1	
337	SWANA E-Seminar: GRVD WTE Facility [4/7/04]	SWANA	1	1	1	1	
341	SWANA E-Seminar: Making Ends Meet When Revenues Start to Disappear	SWANA	1				

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					

	[5/5/04]						
342	SWANA E-Seminar: What Middle Managers Say About Change [5/12/04]	SWANA	1				
343	SWANA E-Seminar: Improving Operational Efficiencies Through Team Bonus Incentives [5/19/05]	SWANA	1				
349	SWANA E-Seminar: Changing Services -City of San Jose's Transition to Single Stream Recycling [6/2/04]	SWANA	1	1	1	1	1
350	SWANA E- Seminar: Business Recycling - How to Increase Participation [6/9/04]	SWANA	1	1	1	1	1
351	SWANA E- Seminar: New York City's Waste Less Website [6/16/04]	SWANA	1	1	1	1	1
215	SWANA - 2001 Special Waste Conference [12/3-4/01]	SWANA	10	9	10	8	
258	SWANA - 2002 Special Waste Conference [12/5-6/02]	SWANA	10	9	9	9	
310	SWANA - 2003 Special Waste Conference [12/11-12/03]	SWANA	10	9	9	9	
345	SWANA - Bioreactor Landfill Course	SWANA	8	8			
242	SWANA - Business Planning, Marketing and Communications for the Solid Waste Industry	SWANA	8	8	4	4	
252	SWANA - FEMA's Debris Management	SWANA	8	8	8	8	8
250	SWANA - Construction and Demolition Debris Course	SWANA	22	22	22	22	8
47	SWANA - Financing Integrated MSW Management Systems [5/14/96]	SWANA	8				
46	SWANA - Groundwater Monitoring/Leachate Mgmt	SWANA	8	8			
94	SWANA - Health & Safety at MSW Landfills	SWANA	10	10			
238	SWANA - Household Hazardous Waste & CESQG Facility Operations 24 hour Training	SWANA / SWANA - FL	15	15	15	15	15
26	SWANA - International Meeting [8/11-13/91]	SWANA	20				
244	SWANA - Landfill Gas Basics	SWANA	8	8			
27	SWANA - Landfill Gas Management (Spring Seminar 1994) [3/4/94]	SWANA	4				
133	SWANA - Landfill Gas Symposium 22 nd Annual [3/22-25/99]	SWANA	15				
163	SWANA - Landfill Gas Symposium 23 rd Annual [3/22-30/00]	SWANA	15				
190	SWANA - Landfill Gas Symposium 24th Annual [3/19-23/01]	SWANA	18				
262	SWANA - Landfill Gas Symposium 26th Annual [3/25-27/03]	SWANA	15	15			
325	SWANA - Landfill Gas Symposium 27th Annual [3/22-25/04]	SWANA	18	18			
368	SWANA - Landfill Gas Symposium 28th Annual [3/7-10/05]	SWANA	15	15			
231	SWANA - Landfill Gas System Operation and Maintenance	SWANA	16	16			
93	SWANA - Landfill Operational Issues	SWANA	8	8			
74	SWANA - Landfill Symposium 1st Annual [11/4-6/96]	SWANA	17				
87	SWANA - Landfill Symposium 2nd Annual [2/4-6/97]	SWANA	18				
117	SWANA - Landfill Symposium 3rd Annual [7/22-24/98]	SWANA	18				
159	SWANA - Landfill Symposium 4th Annual [6/28-30/99]	SWANA	16				
211	SWANA - Landfill Symposium 6th Annual [6/18-20/01]	SWANA	18				
275	SWANA - Landfill Symposium 8th Annual [6/17-19/03]	SWANA	13				
376	SWANA - Landfill Symposium 10 th & Solid Waste Managers Conf [6/2005]	SWANA	15	15	7	7	
344	SWANA Landfill Symposium and Solid Waste Managers Conference	SWANA	17	17			
245	SWANA - Leadership Skill Development for Solid Waste Professionals	SWANA	8	8	4	4	
8	SWANA - Managing Landfill Gas at MSW Landfills	SWANA	10	10	10	10	10
95	SWANA - Managing Landfill Gas at MSW Landfills [1997] Onsite Delivery	SWANA	5	5			
30	SWANA - Manager of Landfill Operations	SWANA	16	16			4
160	SWANA - Manager of Landfill Operations [MOLO®]	UF TREEO Ctr/SWANA - FL	16	16	8	8	
000	SWANA - Manager of Landfill Operations [MOLO®] Exam Only	SWANA/ SWANA - FL	0				
243	SWANA - Managing Composting Programs	SWANA	10	10			
251	SWANA - Managing MSW Collection Systems	SWANA	8		8	8	
246	SWANA - Managing MSW and Recyclables Collection Efficiency Workshop	SWANA	8	8	4	4	
234	SWANA - Managing MSW Recycling Systems	SWANA / SWANA - FL	7	7	7	7	
001	SWANA - Managing MSW Recycling Systems Exam Only	SWANA/ SWANA - FL	0				
222	SWANA - Managing Transfer Station Systems	SWANA			8	8	

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
297	SWANA Online – Health & Safety at MSW Landfills	SWANA	6	6			
296	SWANA Online – Training Sanitary Landfill Operation Personnel	SWANA	5				
298	SWANA Online – Waste Screening at MSWM Facilities	SWANA	6				
247	SWANA - Outsourcing Decisions and Contracting Strategies: Risk and Rewards	SWANA	8	8	4	4	
178	SWANA - Paying for your MSW Management Systems-Revenue Generation & Cost Accounting [10/24/00] [10/14/01]	SWANA	7				
174	SWANA - Principles of Managing Integrated Municipal Solid Waste Management Systems	SWANA	7				
45	SWANA - Principles of Managing IMSWM Systems [Certified Municipal Solid Waste Manager I]	SWANA	24				
346	SWANA - Promoting Mercury Containing Lamp Recycling: A Guide for Solid Waste Managers	SWANA & SWANA-FL	4				
383	SWANA - Relationship is the Key Workshop	SWANA	2	2	2	2	
303	SWANA - Southern States Regional Conference	SWANA	11				
132	SWANA - Training Sanitary Landfill Operating Personnel	SWANA	5				
216	SWANA - Transfer Station Design & Operations [course taken after 1/1/2002]	SWANA			8	8	4
42	SWANA - Transfer Station Design & Operations [course taken prior to 1/1/2002]	SWANA	16		16		
191	SWANA - Waste Con 2000 [10/23-26/00]	SWANA	13		13		
221	SWANA - Waste Con 2001 [10/15-18/01]	SWANA	8	2			
254	SWANA - Waste Con 2002 [10/15-18/02]	SWANA	6	6	6	6	
317	SWANA - Waste Con 2003 [10/12-14/03]	SWANA	5	5	3	4	
354	SWANA - Waste Con 2004 [9/21-23/04]	SWANA	6	4	4	4	
259	SWANA - Waste Reduction, Recycling and Composting 14 th Annual Symposium [2/24-3/1/2003]	SWANA	7	7	15	15	
324	SWANA - Waste Reduction, Recycling and Composting 15 th Annual Symposium [2/9-14/2004]	SWANA			12	12	
51	SWANA - Waste Screening at Municipal Solid Waste [5/23/94,etc]	SWANA	6				
9	SWANA - Waste Screening at MSW Mgmt Facilities [On-site Delivery]	SWANA	10	10	10	10	10
369	SWANA - Winter Technical Symposia	SWANA	7	16	16	16	
141	SWANA-Florida 1999 Summer Conference [8/3-5/99]	SWANA - FL	4				
173	SWANA-Florida 2000 Summer Conference [8/10-11/00]	SWANA - FL	6	6			
189	SWANA-Florida 2001 Spring Conference [3/29-31/01]	SWANA - FL	3	3			
207	SWANA-Florida 2001 Summer Conference	SWANA - FL	5	5	5	5	1
162	SWANA-Florida 2000 Spring Tri-State Conference [4/3-5/00]	SWANA - FL	3				
220	SWANA-Florida 2002 Spring Tri-State Conference [4/7-10/02]	SWANA - FL	6	6	6	6	
326	SWANA-Florida 2004 Spring Tri-State Conference [4/4-7/04]	SWANA - FL	12	12	12	12	
235	SWANA-Florida 2002 Summer Conference [7/24-26/02]	SWANA - FL	4	4	2	1	
255	SWANA-Florida 2003 Spring Conference [4/7-12/03]	SWANA - FL	6	6	5	5	3
294	SWANA-Florida 2003 Summer Conference [8/21-22/03]	SWANA - FL	12	12	12	12	
353	SWANA-Florida 2004 Summer Conference	SWANA - FL	4	2	2	2	
374	SWANA-Florida 2005 Spring Conference [4/10-13/05]	SWANA - FL	6	6	4	5	2
385	SWANA-Florida 2005 Summer Conference [6/26-29/05]	SWANA - FL	8	5	3	3	1
396	SWANA-Florida Chapter Road-e-o Heavy Equipment Operator Training	SWANA - FL	2	2	2	2	2
116	The Complete Ground-Water Monitoring Course	Nielson Environmental Field School, Inc.	16	16			
241	The Old Landfill Seminar	UF TREEO Center / SCS Engineers	5	5			
187	Traffic and Equipment Safety at Landfills	Kohl Consulting, Inc.	2	2			2
13	Train-The-Trainer for Environmental Occupations (Management Credit ONLY)	UF TREEO Center	7	7	7	7	
305	Train-The-Trainer Refresher	UF TREEO Center	7	7	7	7	
121	Training for Personnel at Construction & Demolition Materials Recovery Facilities	Kohl Consulting, Inc.	8			8	

Continuing Education			I, II, III	C&D	Transfer	MRF	Spotter
No.	COURSE TITLE	PROVIDED BY					
147	Training for Spotters at Landfills, Construction & Demolition Sites and Transfer Stations	JEA, Inc. / UF TREEO Center	8	8	8	8	8
347	Training in the Production and Utilization of Compost in Florida 5/2004	FORCE				8	
355	Training in the Production and Utilization of Compost in Florida 6/2004	FORCE				4	
363	Training in the Production and Utilization of Compost in Florida 10/2004	FORCE	2	2			
148	Two-Hour Landfill Spotter Refresher Training Online	JEA, Inc.	2	2	2	2	2
392	Unacceptable Employee Behavior	Fred Pryor Seminars	6	6	6	6	
112	US DOT Hazardous Material / Waste Transportation	UF TREEO Center	6	6	6	6	
23	Utility Management Certification: Financial Management [No longer offered]	UF TREEO Center	7				
24	Utility Management Certification: Management & Supervision [No longer offered]	UF TREEO Center	7				
25	Utility Management Certification: Personnel Management [No longer offered]	UF TREEO Center	7				
126	Waste Acceptability for Spotters, Equipment Operators and Scale House Personnel	Kohl Consulting, Inc.	2	2	2	2	2
210	Waste Control and Spotter Safety Awareness	Kohl Consulting, Inc.	2	2	2	2	2
328	Waste Issues Forum 2004	The Solid & Hazardous Waste Public Information Committee (SHWPIC) serving the Alachua County area	4	4			
382	Waste Issues Forum 2005	The Solid & Hazardous Waste Public Information Committee (SHWPIC) serving the Alachua County area	3	3			
31	Waste Management of North America (Landfill University) (no longer offered)	Landfill University	20				
302	Waste Management Technologies and Operating Guidelines	Kohl Consulting, Inc.	8	8	8	8	4
36	Waste Screening & Identification For Landfill Operators and Spotters	UF TREEO Center / SCS Engineers	8	8	8	8	8
256	Waste Screening & Identification For Landfill Operators and Spotters Refresher	Citrus County – Hazardous Waste Section	4	4	4	4	4
122	Waste Screening and Operation Orientation for Transfer Station Personnel	Kohl Consulting, Inc.	8		8		
164	Waste Tech 2000 [3/5-8/00]	Waste Tech	7				
185	Weighmaster Orientation and Waste Screening Review	Kohl Consulting, Inc.	2	2	2	2	2
73	Wet Weather Operations	Kohl Consulting, Inc.	4	4			
65	What Can I Accept & How Do I Keep It From Blowing Around	Kohl Consulting, Inc.	2				
64	When it Rains, It Pours (And We Stay Open)	Kohl Consulting, Inc.	2	2			
279	Wildlife and Wetland Training for Solid Waste Facilities	UF TREEO Center	8	8			
348	Wood Waste Recycling Conference-2004	RFT	6	6			
240	WMI Odor School [5/29/02]	WMI / St. Croix Sensory, Inc.	7	7	7	7	7

APPENDIX B
WASTE INSPECTION PLAN

INTRODUCTION

This plan specifically addresses the inspection of routine, Class I waste loads for the exclusion of hazardous or otherwise unauthorized materials. The procedures in this text are intended to apply to routine Class I waste loads until a suspected hazardous or otherwise unauthorized waste is identified.

WASTE INSPECTION PROCEDURES

Upon arrival at the landfill property, each and every load of waste is stopped at the scale house to be logged in and weighed by the scale master. Waste arriving outside of the landfill's operating hours will be turned away by a locked gate. The site is accessible only by the main gate.

Once logged in and weighed by the scale master, the truck drivers are asked to confirm that they are hauling routine Class I waste. If the driver identifies the load as routine Class I waste, then one of the following procedures are implemented:

A) Open Topped Municipal Waste Haulers

If a truck is verbally identified to the landfill employees as hauling Class I waste, the truck contents are visually inspected to confirm that the load appears to contain exclusively Class I waste. This inspection is usually performed by looking down from on top into the open topped load, once the truck is un-tarped, by means of an elevated platform or "gantry" located adjacent to the scales. The presence of very noticeable or suspicious odors may trigger further analysis.

If the waste appears to be acceptable (**i.e., does not contain visible quantities of anything other than routine Class I waste**), then the truck is directed to the landfill active work face where it is visually inspected again by the spotter as it is unloaded and before it is spread and compacted. Any load discovered to contain potentially hazardous or otherwise unauthorized waste at this point is completely reloaded back into the waste truck and removed from the site. The rejected waste will not be authorized to re-enter the landfill site.

B) Class I Waste in Closed Containers

If a truck is verbally identified to the landfill employees as hauling Class I waste, but is not visually accessible for inspection at the gantry, the truck is forwarded to the active face of the landfill where its contents are inspected by the spotter as it is unloaded and before it is compacted or disposed. The inspection procedure at the active work face is identical to that

described in the previous section. Any load discovered to contain potentially hazardous or otherwise unauthorized waste at this point is completely reloaded back into the truck and removed from the site. The rejected waste will not be authorized to re-enter the landfill site.

RANDOM WASTE LOAD EXAMINATION

The Landfill Site Manager will examine at least three random loads of waste each week. The waste trucks selected for examination will be directed to the active face where the load can be visually examined upon unloading. Information and observations resulting from each random inspection shall be recorded in writing and retained at the landfill for at least three years. The recorded information, signed by the inspector, will include, at a minimum:

- the date and time of the inspection;
- the names of the hauling firm and the driver of the vehicle;
- the vehicle license plate number;
- the source of the waste as stated by the driver; and
- observations made by the inspector during the examination.

HANDLING HAZARDOUS WASTE

If any suspect wastes or wastes which could potentially be regulated hazardous wastes are identified by random load checking, or are otherwise discovered to be improperly deposited at the landfill, the Landfill Site Manager shall promptly notify the FDEP, the person responsible for shipping the wastes to the landfill, and the generator of the wastes, if known. The area where the wastes are deposited shall immediately be cordoned off from public access. If the generator or hauler cannot be identified, the Landfill Site Manager will assure the cleanup, transportation, and disposal of the waste at a permitted hazardous waste management facility.

HAZARDOUS WASTE TRAINING

The Landfill Site Manager, and all other staff who may be required to perform a waste inspection, will receive training in hazardous waste identification, as well as an evaluation of their knowledge and ability to effectively screen incoming waste according to this "Waste Inspection Plan".

All new landfill employees will be teamed up with experienced personnel for at least one week upon commencement of work as an inspector in order to receive immediate on-the-job training.

NOTIFICATION OF UNACCEPTABLE WASTE LOADS

The rejection of waste, pursuant to this plan, will be recorded in writing and filed on site for a period of one year. The pertinent information concerning the rejection, such as truck license number, assumed contents, volume, and other relevant data, will be recorded on a LOAD REJECTION FORM. The Landfill Site Manager will contact the generator, hauler, or other party responsible for shipping the waste to the landfill to determine the identify of the waste sources. The appropriate local officials will be notified by phone when the waste load is asked to leave the site and all pertinent information made available to them upon their request.

APPENDIX C

EMERGENCY RESPONSE AGENCIES

EMERGENCY RESPONSE COORDINATOR(S)

(Landfill Site Manager will be responsible at the facility. Below are names of the contacts.)

- | | | |
|---------------------------|------------------------------|----------|
| 1) Matt Orr | (407) 891 – 3720 | (Office) |
| 1501 Omni Way | (863) 634 – 7177 | (Mobile) |
| St. Cloud, Florida 34773 | morr@wasteservicesinc.com | (E-mail) |
| | | |
| 2) Mike Rowley | (407) 891 – 3720 | (Office) |
| 1501 Omni Way | (863) 634 – 7735 | (Mobile) |
| St. Cloud, Florida 34773 | mrowley@wasteservicesinc.com | (E-mail) |
| | | |
| 3) Shawn McCash | (561) 237 – 3414 | (Office) |
| 5002 T-Rex Ave, Suite 200 | (602) 705 – 5545 | (Mobile) |
| Boca Raton, Florida 33431 | smccash@wasteservicesinc.com | (E-mail) |

EMERGENCY RESPONSE TELEPHONE NUMBERS

Fire Department 911
(407) 343 – 7000 Non-Emergency

Sheriff's Office 911
(407) 348 – 2222 Non-Emergency

Rescue Squad 911
(407) 343 – 7000 Non-Emergency

Hospital (Florida Hospital)(407) 846 – 4343

County Manager(407) 343 – 2380

Florida "Hot Line" (904) 488-1320

Florida Department of Environmental Protection (407) 894-7555
..... (407) 893-3328