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@wasteservicesinc.com

OCD-SW-06-0242

Mr. Shawn McCash
Omni Waste Of Osceola County, LLC
1051 Omni Way
St. Cloud, FL 34473

Osceola County – SW
Oak Hammock Disposal Facility, Class I
Leachate Collection System – Cell 3, Minor Modification
Modification Of Permit No. SO49-0199726-002
Permit Application No. SO49-0199726-003

Dear Mr. McCash:

In response to the request submitted on May 23, 2006, by Ayushman Gupta, P.E. of Geosyntec Consultants, Permit No. SO49-0199726-002 is modified to incorporate minor design changes to the primary leachate collection system in Cell 3. This permit modification authorizes the substitution of commercially available geocomposite products (such as PermaNet HL and PermaNet UL geocomposites manufactured by GSE) for use as the primary geocomposite drainage layer in Cell 3.

The permit modification also authorizes an additional leachate collection drain in Cell 3. The drain will prevent the maximum head on the primary geomembrane from exceeding 12 inches.

Cell 3 is one of the four Cells (Cells 1 through 4) of the currently permitted Phase 1 development of the Oak Hammock Disposal Facility (OPHDF).

The information submitted on May 23, 2006 on file at the Central District office, is made a part of the subject permit. The document is listed below:

Minor Modification Application For Cell 3 At Oak Hammock Disposal Facility Prepared by Geosyntec Consultants, Tampa, Florida date May 2006.

All other conditions of the subject permit remain unchanged.

This letter must be attached to Permit No. SO49-0199726-002 and becomes part of that permit. The new Permit No. is SO49-0199726-003.

Sincerely,

F. Thomas Lubozynski for
Vivian F. Garfein
Director, Central District

Date: June 9, 2006

FILING AND ACKNOWLEDGEMENT

Filed, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

E. Williams June 9, 2006

Clerk Date

CERTIFICATE OF SERVICE

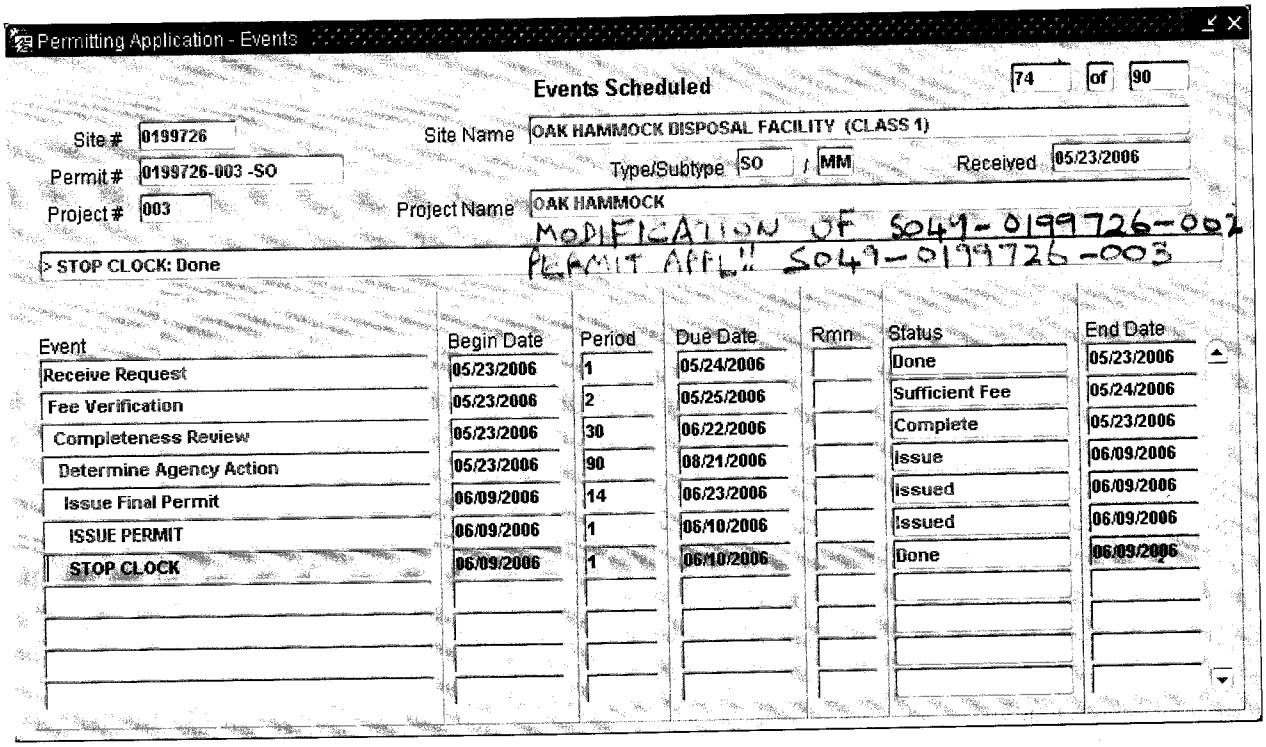
The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on June 9, 2006 to the listed persons.

E. Williams

Clerk

VFG/gc/ew

cc: Richard Tedder, P.E. – DEP – Tallahassee
Ayushman Gupta, P.E. – Geosyntec Consultants agupta@geosyntec.com



Permitting Application - Events

Events Scheduled

74 of 90

Site # 0199726 Site Name OAK HAMMOCK DISPOSAL FACILITY (CLASS 1)

Permit # 0199726-003 -SO Type/Subtype SO / MM Received 05/23/2006

Project # 003 Project Name OAK HAMMOCK

MODIFICATION OF SO49-0199726-002
PERMIT APPL'N SO49-0199726-003

> STOP CLOCK: Done

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Receive Request	05/23/2006	1	05/24/2006		Done	05/23/2006
Fee Verification	05/23/2006	2	05/25/2006		Sufficient Fee	05/24/2006
Completeness Review	05/23/2006	30	06/22/2006		Complete	05/23/2006
Determine Agency Action	05/23/2006	90	08/21/2006		Issue	06/09/2006
Issue Final Permit	06/09/2006	14	06/23/2006		Issued	06/09/2006
ISSUE PERMIT	06/09/2006	1	06/10/2006		Issued	06/09/2006
STOP CLOCK	06/09/2006	1	06/10/2006		Done	06/09/2006

RED ___ YELLOW___ GREEN___ NO PERMIT REQ ___

HISTORY SHEET

SITE/WAFR/AIR#: 49-0199726-003 **TYPE:** SO **SUBTYPE:** MM

SITE/WAFR/AIR NAME: Oak Hammock

PROJECT NAME:

DATE	TIME BEGIN	TIME END	TOTAL TIME	COMMENTS	POSITION TITLE
ENTERED	MAY 23 2006		30		OAS

Department of Environmental Protection

Jeb Bush
Governor

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

Colleen Castille
Secretary

December 13, 2005

OCD-SW-05-0502

Mr. Timothy J. Salopek
BY ELECTRONIC MAIL tjsomni@aol.com
Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, Florida 34741

Osceola County – SW
Oak Hammock Disposal
Class I
DEP Permit No. SC49-0199726-001 & SC49-0199726-002—Appendix B

Dear Mr. Salopek:

Attached is a copy of the Appendix B, a table that reflects time-sensitive specific conditions in your current permit. We suggest you file the table with your permit and use it as a reference for required due dates.

Please contact me at (407) 893-3329 or james.bradner@dep.state.fl.us, if you have questions or need further information.

Sincerely,

James N. Bradner

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

JNB/zb

Attachment

APPENDIX B
Page 1
DEP Permit #SC49-0199726-001
DEP Permit #SC49-0199726-002

Specific condition	Requirement	Action	Due date
8	Equipment breakdown causing temporary noncompliance with the permit	Notify the Department and implement corrective action	Immediately upon discovery
21	Construction permit renewal (permit expires 8/28/2007)	Submit application for permit renewal	Before 6/29/2007 (at least 60 days prior to permit expiration)
25	Monitoring Plan Implementation Schedule (MPIS)	Conduct required semiannual ground water monitoring	Twice each year
26	Fires or burning of solid waste	Letter explaining cause, remedial action, and measures taken to prevent a recurrence	Within 5 days of fire
33	Control of nuisance conditions	Investigate complaints of nuisance conditions	Immediately upon discovery
38	Initial cover	Apply initial cover	At the end of each working day, working face may be covered with temporary cover if solid waste will be placed on it within 18 hours
38	Intermediate cover	Apply intermediate cover	If final cover or an additional lift is not to be applied within 180 days of cell completion, apply within 7 days
44	Routine maintenance	Inspect slopes and drainage structures for evidence of settling, erosion, washout and siltation	At least monthly and after major storm events
45	Gas monitoring	Monitor all waste filled areas for the presence of landfill gas and submit results to the Department within 30 days of receipt of data	Quarterly
48	Operations report	Submit a report quarterly including a summary of the types and quantities of solid wastes received	Quarterly

APPENDIX B
Page 2
DEP Permit #SC49-0199726-001
DEP Permit #SC49-0199726-002

Specific condition	Requirement	Action	Due date
49	Permit renewal (permit expires 8/28/2007)	Submit application for permit renewal	Before 6/29/2007 (at least 60 days prior to permit expiration)
50	Closure permit requirements	Submit a closure permit application to the Department	At least 90 days prior to the date when wastes will not longer be accepted
54	Annual cost estimates and financial mechanism adjustments	Annually adjust the closure and long-term care cost estimates, and funding of the financial assurance mechanism	Submit between January 1 and March 1 of each year

Williams, Elizabeth

From: KCargill@GeoSyntec.com
Sent: Wednesday, January 14, 2004 8:41 AM
To: Williams, Elizabeth
Subject: RE: 0395 Oak Hammock permit modification and attachment

received in December, sorry for the delay.
Ken Cargill

-----Original Message-----
From: Williams, Elizabeth [mailto:Elizabeth.Williams@dep.state.fl.us]
Sent: Tuesday, December 16, 2003 10:24 AM
To: TJSOmni@aol.com
Cc: Tedder, Richard; Wick, Fred; Ken Cargill;
ddee@landersandparsons.com; dshe@osceola.org
Subject: 0395 Oak Hammock permit modification and attachment

<<0395 Oak Hammock Permit Mod with attach.pdf>>

Adobe Acrobat Reader 5.0 can be downloaded for free at the following Internet site:
http://www.adobe.com/products/adobe/readstep.html

It is imperative that you reply to this e-mail indicating that you received this document. It is important that we track this information.

Elizabeth Williams
elizabeth.williams@dep.state.fl.us
Administrative Secretary
Waste Management
Department of Environmental Protection
Telephone 408/893-3328
Suncom 325-3328
FAX 407/893-3124

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

Electronic Mail
TJSOmni@aol.com

Mr. Timothy J. Salopek, President
Omni Waste of Osceola County, LLC
Post Office Box 421613
Kissimmee, Florida 34742

OCD-SW-03-0395

Osceola County - SW
Oak Hammock Disposal, Class I -Letter Modification
Modification of Permit Nos. SC49-0199726-001 and SO49-0199726-002
DEP Permit No. SC49-0199726-003

Dear Mr. Salopek:

The Department hereby modifies DEP Permit Nos. SC49-0199726-001 and SO49-0199726-002 to incorporate phased financial assurance for cells 1-4 of the Oak Hammock disposal facility. The following sentence is added to Specific Condition #53. Financial Responsibility:

> "Phased financial assurance will be provided to the Department in accordance with the proposal signed and sealed by Kenneth W. Cargill, P.E. on October 31, 2003, and accepted by the Department on November 3, 2003. The accepted proposal is Exhibit II."

A copy of the accepted proposal, including its appendices A and B are attached.

All other conditions of the subject permit remain unchanged.

This letter and its attachments must be attached to Permit Nos. SC49-0199726-001 and SO49-0199726-002 as Exhibit II. It becomes part of those permits.

Sincerely,

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

Date: December 16, 2003

FTL/jnb/ew
Attachment
cc: Richard Tedder, P.E. - DEP - Tallahassee
Fred Wick, DEP Financial Coordinator - Tallahassee
Kenneth W. Cargill, P.E.- GeoSyntec Consultants (kcargill@geosyntec.com)
David Dee, Esq.- Landers and Parsons (ddee@landersandparsons.com)
Danny Schaeffer- Osceola County Solid Waste Management dshe@osceola.org

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

31 October 2003

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

Subject: Clarification of Financial Assurance Conditions
Oak Hammock Disposal Facility
Osceola County, Florida
Permit Nos. SC49-0199726-001 and SO49-0199726-002

Dear Mr. Bradner:

GeoSyntec Consultants has prepared this letter on behalf of Omni Waste of Osceola County (Omni) to provide clarification of the financial assurance conditions for Phase 1 of the Oak Hammock Disposal Facility (OHDF) in Osceola County, Florida. Phase 1 of the OHDF is comprised of four cells separated by intercell berms, and it is separated from future landfill phases by similar intercell berms. Special Condition No. 53 of the referenced permits issued by the Florida Department of Environmental Protection (FDEP) requires that "Proof that the financial mechanisms are established and funded ... shall be submitted to the Department sixty (60) days prior to the acceptance of any solid waste at the facility".

The latest financial assurance estimate for Phase 1 of the OHDF was prepared in April 2003 by GeoSyntec and accounts for costs of closure and long-term care in compliance with Rule 62-701.630, Florida Administrative Code (F.A.C.). The total amount estimated was $7,771,073 for all the cells in Phase 1 (i.e. cells 1 through 4). If a more accurate and realistic scenario is considered for the timing of cell construction and operation, the cost for the required financial assurance can be more accurately estimated. During the first year of operation of the landfill, only Cell 1 will receive waste, Cell 2 will be activated in year 2, Cell 3 in year 3, and Cell 4 in year 4. GeoSyntec understands that the financial assurance requirement can be adjusted to consider only the cells scheduled to contain waste during the period covered by the financial assurance. Cells not yet constructed would be financially assured prior to waste being disposed in them.

A summary of the total cost for closure and long-term care for each of the Cells 1 through 4 is provided in the table below. These costs are a breakdown of the estimated costs for each individual cell provided by the Financial Assurance Cost Estimate Form

provided to FDEP in April 2003. The tables included in Appendices A and B provide a further breakdown of the costs for each item obtained from the cost estimate form. The table below has allocated these costs to each cell.

	Cell 1	Cell 2	Cell 3	Cell 4	Total Cost
Closure	$1,294,048	$892,348	$787,619	$787,619	$3,761,633
Long-Term Care (30 years)	$2,427,793	$566,422	$507,612	$507,612	$4,009,440
Total Cost for Closure and Long-Term Care for Cells 1 through 4:					$7,771,073

The table below provides a summary of the progressive financial assurance requirements for the OHDF during Phase 1. This table provides the cumulative closure and long-term care costs associated with each additional cell being constructed. Additional financial assurance will be provided prior to each additional cell accepting any waste. These values represent costs in 2003 and do not account for inflation that could occur between now and the time of construction of the cells. Therefore, the total costs will be inflated by the FDEP approved rate (currently 2 percent) annually. Also, the costs assume that no cell is closed during construction of the four cells.

Cells under Construction	Closure Cost	Long-Term Care Cost	Adjusted Estimate of Financial Assurance
1	$1,294,048	$2,427,793	**$3,721,840**
1, 2	$2,186,395	$2,994,215	**$5,180,611**
1, 2, 3	$2,974,014	$3,501,828	**$6,475,842**
1, 2, 3, 4	$3,761,633	$4,009,440	**$7,771,073**

Omni proposes to provide financial assurance for Cell 1 (i.e. $3,721,840) prior to waste acceptance at the OHDF in accordance with permit special condition No. 53. Prior to waste acceptance in Cell 2, financial assurance will be supplemented to include the cost of closure and long-term care for Cell 1 and 2 (i.e. a total of $5,180,611). Similarly, prior to acceptance of waste in Cell 3 or Cell 4, the financial assurance will be supplemented to reflect the cost of closure and long-term care for all cells intended to contain waste.

On behalf of Omni, GeoSyntec requests your concurrence with this clarification of financial assurance conditions. Your earliest response would be appreciated as the time for establishment of financial assurance for Cell 1 is approaching. If you have any questions or need additional information, please do not hesitate to contact the undersigned.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

Copy to: Tim Salopek, Omni Waste
Lenny Marion, Omni Waste
Frank Hornbrook, FDEP Solid Waste Section

APPENDIX A

OAK HAMMOCK DISPOSAL FACILITY
ESTIMATED CLOSING COST FOR CELLS 1 TO 4

Area of Cells

Cell	Area ac
1	18.04
2	12.44
3	10.98
4	10.98
Total area:	**52.44**

Item #	Work Description	Total Estimated Amount Cells 1, 2, 3, 4	Total Estimated Amount Cell 1	Total Estimated Amount Cell 2	Total Estimated Amount Cell 3	Total Estimated Amount Cell 4
1	Proposed Monitoring Wells	N/A	N/A	N/A	N/A	N/A
2	Slope and Fill	$297,413	$102,314	$70,553	$62,273	$62,273
3	Cover Material (Barrier Layer)	$1,899,767	$653,543	$450,669	$397,777	$397,777
4	Vegetative Soil Cover	$106,220	$36,541	$25,198	$22,241	$22,241
5	Vegetative Layer	$108,120	$37,195	$25,649	$22,638	$22,638
6	Stormwater Control System	$99,122	$34,099	$23,514	$20,754	$20,754
7	Gas Controls: Active	$104,007	$35,780	$24,673	$21,777	$21,777
8	Gas Control: Active Extraction	$138,115	$47,513	$32,764	$28,919	$28,919
9	Security System	$5,100	$1,754	$1,210	$1,068	$1,068
10	Engineering	$102,520	$35,268	$24,320	$21,466	$21,466
11	Professional Services	$433,925	$149,275	$102,937	$90,856	$90,856
	Subtotal of 1-11 Above:	**$3,294,309.0**	**$1,133,282.5**	**$781,487.5**	**$689,769.5**	**$689,769.5**
12	Contingency (10% of Total)	$329,431.0	$113,328.3	$78,148.7	$68,977.0	$68,977.0
	Closing Cost Subtotal:	**$3,623,740.0**	**$1,246,610.8**	**$859,636.2**	**$758,746.5**	**$758,746.5**
13	Site Specific Costs:	$137,893.0	$47,436.9	$32,711.5	$28,872.3	$28,872.3
	TOTAL CLOSING COSTS:	**$3,761,633.0**	**$1,294,047.6**	**$892,347.7**	**$787,618.8**	**$787,618.8**

APPENDIX B

OAK HAMMOCK DISPOSAL FACILITY
ANNUAL COST FOR LONG-TERM CARE FOR CELLS 1 TO 4

Area of Cells

Cell	Area ac
1	18.04
2	12.44
3	10.98
4	10.98
Total area:	**52.44**

Item #	Work Description	Total Estimated Amount Cells 1, 2, 3, 4	Total Estimated Amount Cell 1	Total Estimated Amount Cell 2	Total Estimated Amount Cell 3	Total Estimated Amount Cell 4
1	Groundwater Monitoring	$45,441	$45,441	$0	$0	$0
2	Surface Water Monitoring	$0	$0	$0	$0	$0
3	Gas Monitoring	$3,060	$3,060	$0	$0	$0
4	Leachate Monitoring	$5,175	$1,294	$1,294	$1,294	$1,294
5	Leachate Collection / Treatment Systems Maintenance	$4,123	$1,643	$827	$827	$827
6	Leachate Collection / Treatment Systems Operation	$7,956	$2,737	$1,887	$1,666	$1,666
7	Maintenance of Groundwater Monitoring Wells	$357	$357	$0	$0	$0
8	Gas System Maintenance	$108	$22	$43	$22	$22
9	Landscape	$24,480	$8,421	$5,807	$5,126	$5,126
10	Erosion Control & Cover Maintenance	$2,142	$737	$508	$448	$448
11	Storm Water Management System Maintenance	$2,040	$702	$484	$427	$427
12	Security System Maintenance	$1,116	$384	$265	$234	$234
13	Utilities	$12,240	$4,211	$2,904	$2,563	$2,563
14	Administrative	$13,260	$4,562	$3,146	$2,776	$2,776
	Subtotal of 1-14 Above:	**$121,498.00**	**$73,569.37**	**$17,164.29**	**$15,382.17**	**$15,382.17**
15	Contingency (10% of Total)	$12,150.00	$7,357.06	$1,716.46	$1,538.24	$1,538.24
	Annual Long-Term Care Cost ($/Year)	**$133,648.00**	**$80,926.43**	**$18,880.75**	**$16,920.41**	**$16,920.41**
16	Number of Years of Long-Term Care	30	30	30	30	30
	TOTAL CLOSING COSTS:	**$4,009,440.00**	**$2,427,793**	**$566,422**	**$507,612**	**$507,612**

Williams, Elizabeth

From: Janice [suny2455@bellsouth.net]
Sent: Friday, October 18, 2002 3:01 PM
To: Williams, Elizabeth
Subject: Read: Oak Hammock Landfill, Class I permit with attachments

ATT115216.txt

This is a receipt for the mail you sent to <tjsomni@aol.com> at 10/18/02 2:11 PM

This receipt verifies that the message has been displayed on the recipient's computer at 10/18/02 3:00 PM

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

NOTICE OF PERMIT

In the matter of an
Application for Permit
by:

By E-mail
tjsomni@aol.com

Mr. Timothy J. Salopek
Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, FL 34741

Osceola County – SW
Oak Hammock Disposal, Class I

Dear Mr. Salopek:

Enclosed is Permit Numbers SC49-0199726-001 & SO49-0199726-002, to construct and operate the Oak Hammock Disposal, Class I landfill, issued under section(s) 403.061(14) and 403.707, of the Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit under section 120.68 of the Florida Statutes, by the filing of a Notice of Appeal under rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this notice is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

William M. Bostwick for

Vivian F. Garfein
Director, Central District
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803
407/894-7555

Date: October 18, 2002

FILING AND ACKNOWLEDGMENT

FILED, on this date, under section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

E. Williams

October 18, 2002

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on October 18, 2002 to the listed persons.

VFG/gc/ew
Enclosure
Copies furnished to:
Richard Tedder, P.E. – DEP – Tallahassee
Fred Wick – DEP – Tallahassee
L. Kozlov, P.E. - DEP - Air Section
Kenneth W. Cargill, P.E. - Geosyntec Consultants
KCargill@geosyntec.com
Gary L. Pickett
garpick1@juno.com
Jeanette Coughenour, Manager - Association of Poinciana Village, Inc.
apvmgr@jua.net
Ronald M. Kaplan, Esq. - Florida Counsel for Waste Management, Inc.
Janice Langenfeld
suny2455@bellsouth.net

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

Permittee:
Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, FL 34741

Attention: Mr. Timothy J. Salopek

Permit Numbers: SC49-0199726-001 &
SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007
County: Osceola
Section/Township/Range:
11 & 14/ 28 South / 33 East
Latitude / Longitude:
28°02'57" North / 81°03'10" West
Project: Oak Hammock Disposal, Class I

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-701 and 62-711. The above named permittee is hereby authorized to perform the work and operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To construct and operate the Oak Hammock Disposal, Class I landfill. The present service area for the landfill is Osceola County and surrounding counties.

This five-year construct and operate permit will be for Phase I and will include four landfill cells with a footprint of approximately 53 acres and ancillary facilities supporting the operation of the landfill and providing stormwater management. The complete buildout of the facility will include 21 landfill cells with a footprint of approximately 264 acres within a property boundary of approximately 2179 acres. The anticipated life of the complete facility is 30 years.

Household trash, commercial waste, construction and demolition debris, and other waste classified as Class I waste may be disposed in the landfill. The waste will be from residential communities and commercial sources.

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 a leachate collection system (LCS). Collected leachate is pumped from the sumps into an on-site storage facility and trucked to a wastewater treatment plant (WWTP) periodically for treatment and disposal.

A gas management system will be implemented to control odors and migration of methane.

The project incorporates a ground water and surface water monitoring plan.

LOCATION: The landfill is located approximately 6.5 miles south of Holopaw, on the west side of U. S. Highway 441, in unincorporated Osceola County, Florida.

General Conditions are attached.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes (F.S.) The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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

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

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

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

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

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

   (a) Have access to and copy any records that must be kept under conditions of this permit;
   (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
   (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

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

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section

403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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

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

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

13. This permit also constitutes:

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

14. The permittee shall comply with the following:

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

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

    (c) Records of monitoring information shall include:
        1. the date, exact place, and time of sampling or measurements;
        2. the person responsible for performing the sampling or measurements;
        3. the dates analyses were performed;
        4. the person responsible for performing the analyses;
        5. the analytical techniques or methods used;
        6. the results of such analyses.

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

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

1. Plans and Specifications: Drawings, plans, documents and specifications submitted by the permittee are not attached hereto, but remain on file at the Central District office, and are made a part of this permit.

2. Inspection Requirements: A copy of the permit, with a complete copy of the permit application and engineering drawings, shall be kept on file at the landfill for inspection and review upon request.

3. Other Permits: This permit does not relieve the permittee from complying with any other appropriate stormwater, ERP or other permit requirements.

4. Signs: Signs indicating the name of the operating authority, traffic flow, hours of operation, charges for disposal and the types of wastes accepted shall be placed at all entrances to the site.

5. Site Access: Access to the site shall be restricted by an effective barrier designed to prevent unauthorized entry and dumping.

6. Litter, Dust & Fire Protection: The landfill shall have litter control devices, dust controls, fire protection and fire-fighting facilities. Litter is to be picked up and litter control devices are to be cleaned with the litter placed in the active cell.

7. Safety Devices: Safety devices shall be provided on equipment to shield and protect the operators from potential hazards during operation.

8. Equipment Breakdown: In the event of equipment malfunction, destruction, breakdown or other problems resulting in the permittee being temporarily unable to comply with any of the conditions of this permit, the Department is to be immediately notified by the permittee as to the cause, what steps are being taken to correct the problem and prevent its recurrence, as required by Rule 62-4.130, F.A.C.

9. Effluent Discharge: There shall be no discharge of liquid effluents or contaminated runoff to surface or ground water without prior approval from this Department.

10. Surface Water Management: All surface water runoff from the developed portions of the site shall be collected and treated to meet the requirements of Chapters 373 and 403, Florida Statutes (F.S.) prior to discharge off-site. The surface water management system shall prevent surface water flow into waste filled areas.

11. Stormwater - Leachate Contamination: Stormwater that comes into contact with leachate shall be treated as leachate and any leachate emanating from the landfill shall be collected and treated as necessary to meet the requirements of Chapters 62-302, 62-4 and 62-520, F.A.C., unless the leachate is transmitted to a permitted treatment facility.

12. Stormwater System Maintenance: The stormwater system shall be maintained and visually inspected on a periodic basis and shall be cleaned as necessary to maintain proper operation.

13. Zone of Discharge: The zone of discharge for the facility shall be a three dimensional volume, defined in the vertical plane as extending from the top of the ground to the base of the surficial aquifer, and defined in the horizontal plane as extending 100 feet from the foot print of the waste disposal area or to the property boundary, whichever is less. Class G-II water quality standards must be met at the boundary of the zone of discharge in accordance with Rule 62-522.410, F.A.C.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

14. Quality Assurance: The Construction Quality Assurance (CQA) Plan submitted with the permit application shall be followed for installing and testing the liner system and related components. The CQA engineer or the engineer's designee shall be on-site at all times during construction of the liner systems to monitor the construction activities including the preparation of the subgrade, placement of the GCL, primary and secondary liners, and the placement of the soil drainage layer over the primary liner to ensure the underlying geosynthetics are not damaged during construction.

15. Supervision: A registered engineer qualified to practice in Florida shall supervise and evaluate the liner installation quality assurance/quality control program to ensure that the liner meets design specifications. Upon completion, the engineer shall submit a summary report to the Department as to the complete conformity to the plans and specifications as approved. This summary report shall include a documented control program of the liner installation, liner inspections and the quality assurance/quality control testing procedures and laboratory analyses. This report shall be included with the certification required in Specific Condition 22 of this permit.

16. Base: Prior to the liner installation, the subgrade shall be prepared to provide a firm unyielding foundation and if necessary, the base shall be brought up to grade by placement and compaction of fill material. The fill material and subgrade shall not contain rocks, roots, debris, shells, or other materials that could penetrate the liner material.

17. Liner: The liner system consists of a double-composite liner. The liner system, from top to bottom, consists of: 2 foot thick protective soil layer, primary geocomposite drainage layer, 60-mil thick primary HDPE textured geomembrane, primary geosynthetic clay liner (GCL), secondary geocomposite drainage layer, 60-mil thick HDPE secondary textured geomembrane, secondary GCL, and compacted subgrade.

18. Liner Installation: Installation of the liner shall be performed by an experienced installer who has installed similar type materials. The permittee shall notify the Department at least 10 days prior to the commencement of liner installation work in any cell.

19. GCL Installation Limitation: The number of geosynthetic clay liner (GCL) panels that may be deployed in any one day shall be limited to the number that can be placed in a dry condition and covered by the HDPE while still dry. No installation or seaming of GCL under wet conditions shall be allowed. The CQA plan requires the owner's inspector to inspect the subgrade each day prior to placing the GCL.

20. Geomembrane Testing: Non-destructive air pressure tests and/or vacuum test shall be conducted by the installer under the direction of the CQA engineer or his designee to test 100 percent of the field seams of the geomembrane. Destructive tests of the geomembrane field seams shall be in accordance with the approved CQA plan and at a frequency no less than one destructive test sample every 500 linear feet of field seam.

21. Construction Permit Renewal: The construction shall reasonably conform to the plans and supporting documents submitted as part of the application. If construction can not be completed before the expiration of this permit, the permittee must notify the Department, in writing, at least 60 days prior to the expiration of the construction permit and request a renewal of the construction permit.

22. Certification: After all significant initial construction has been completed, and prior to acceptance of any solid waste, the engineer of record shall complete a Certificate of Construction Completion, DEP Form 62-701.900(2), then contact the Department to arrange for Department representatives to inspect the facility in the company of the permittee, the engineer and the proposed on-site facility operator.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

23. Solid Waste Disposal: The landfill shall not receive solid waste until the leachate collection system is in place and functional and Specific Conditions 15, 22 and 25 are satisfied.

24. Liner Edge Staking: The edge of the liner must be clearly and permanently marked or outlined by staking or other means so that solid waste is deposited at least 10 feet back from the edge of the liner.

25. Monitoring Plan Implementation Schedule: The Monitoring Plan Implementation Schedule attached as Exhibit I, is made a part of this permit. All wells shall be in place and sampled prior to placement of waste into the newly constructed cell.

26. Solid Waste Burning: Burning of solid waste is prohibited except as provided by Rule 62-701.300(3), F.A.C. Any unauthorized fires involving solid waste at the landfill must be reported to the Department within 5 days by letter explaining the cause, remedial action and measures taken to prevent a recurrence.

27. Improper Operations: When the Department, after investigation, has good reason (such as complaints, questionable maintenance of equipment, improper operations, etc.) to believe that any applicable standard contained in Chapter 62-701, F.A.C. or in this permit is being violated, it may require the owner or operator of the source to identify the nature of the problem and to submit a report to the Department on the results of the investigation and corrective action taken to prevent its recurrence.

28. Operation of Pollution Control Devices: The leachate and stormwater control systems shall be properly operated, monitored and maintained (Rule 62-701.500, F.A.C.) A record shall be kept of the amount of leachate collected, the date the leachate was taken offsite for disposal, and the identity of the wastewater treatment facility where the leachate was disposed.

29. Leachate Collection and Removal System: The primary leachate collection and removal system lying above the upper geomembrane shall be designed to limit the leachate head to one foot above the liner during routine landfill operations after placement of initial cover, except in sumps and leachate collection trenches.

30. Leachate Storage Tanks: The integrity of the leachate storage tanks and containment facilities shall be checked on a weekly basis so that no leachate releases to the soils will occur. The storage tanks and containment facilities shall be maintained and operated in accordance with Rule 62-701.400(6), F.A.C.

31. Precipitation Records: A recording rain gauge shall be operated and maintained to record precipitation at the landfill. Precipitation records shall be maintained and used by the permittee to compare with leachate generation rates.

32. Hazardous Wastes: Any incidental hazardous wastes received in connection with operation of this facility must be disposed of in accordance with Rule 62-730, F.A.C.

33. Control of Nuisance Conditions: The operating authority shall be responsible for the control of odors and fugitive particulates arising from this operation. Such controls shall prevent the creation of nuisance conditions that may arise from adverse odors on adjacent or nearby properties and users. Complaints received from the general public shall be immediately investigated by the permittee and where warranted, corrective action taken to abate the adverse odor.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

34. Operations Plan: An operations plan prepared by the engineer of record shall be kept at the landfill. The operations plan shall include the sequence of filling, compaction, placement of cover, day to day operations, etc. The landfill operator shall be trained and knowledgeable about the plan.

35. Initial Waste Placement: The first layer of waste placed above the liner and leachate collection system shall be a minimum of four feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system.

36. Initial Cover Stockpile: An adequate supply of acceptable initial cover, as specified in the operations plan, shall be maintained at the landfill and be available at all times. All stockpiles shall be graded to minimize erosion potential. Silt fences or diversion berms shall be utilized around the stockpiles to control erosion.

37. Waste Compaction & Working Face: Except for the placement of the initial layer of waste, all solid waste shall be spread in layers of approximately two (2) feet in thickness and compacted to approximately one (1) foot in thickness or as thin a layer as practical before the next layer is applied. All compacted solid waste shall be formed into cells with the working face and the side grades above land surface at a slope no greater than three feet horizontal to one foot vertical rise. The working face shall be only large enough to efficiently accommodate vehicles discharging waste.

38. Initial Cover and Intermediate Cover: Initial cover shall be applied at the end of each working day except the working face may be covered with temporary cover if solid waste will be placed on it within 18 hours. 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 tarpaulin, that may be removed prior to the placement of additional waste. An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion. All or part of the intermediate cover may be removed prior to placing additional waste or installing final cover.

39. Final Cover - Top: In descending order, the final cover system on the top (5 percent) slopes of the landfill shall consist of: 0.5 ft. thick vegetative layer, 1.5 ft. thick protective soil layer, 40-mil thick smooth polyethylene (PE) geomembrane, and 1-ft. thick (minimum) intermediate cover layer over the compacted waste.

40. Final Cover - Side Slopes: The final cover system on the 4H:1V side slopes of the landfill from top to bottom shall consist of: 0.5 -ft. thick vegetative layer, 1.5 - ft. thick protective layer, a geocomposite drainage layer, a 40-mil thick textured PE geomembrane, and a 1 - ft. thick (minimum) intermediate cover layer over the compacted waste.

41. Erosion Minimization: Erosion of the final cover system shall be minimized by final cover swales. The swales shall intercept sheet flow from the final cover system. The final cover swales shall direct the collected surface-water runoff to downchutes and the perimeter swale. A vegetative cover placed on the final cover slopes of the landfill will minimize erosion and reduce loss from the final cover system. The final cover system shall be periodically inspected and erosion damage or vegetative stress shall be repaired before significant erosion develops.

42. Side Slopes: The side slopes shall not be steeper than 4 horizontal to 1 vertical and, when the final cover is installed, shall be sodded to minimize erosion.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

43. Final Cover Surface Gradient: The top gradient of the final cover surface will have a gradient of 5 percent and shall take into consideration the effects of expected subsidence caused by settling and decomposition of the fill material to minimize ponding and erosion.

44. Routine Maintenance: Cracks or eroded sections in the surface of any filled and covered area shall be properly repaired and a regular maintenance program shall be followed to eliminate pockets or depressions that may develop as refuse settles. The slopes and drainage structures shall be inspected at least monthly and after major storm events for evidence of settling, erosion, washout or siltation.

45. Gas Monitoring: The permittee shall implement a gas management system to comply with Rule 62-701.530, F.A.C.

46. Landfill Elevation: The final (maximum) elevation of the Oak Hammock Disposal, Class I landfill, shall not exceed 178 feet NGVD.

47. Operation Training Compliance: The Oak Hammock Disposal, Class I landfill shall comply with Rule 62-701.320(15), F.A.C. - Operator training.

48. Operations Report: An operations report shall be submitted to the Department on a quarterly basis. Reports shall include the following:

    a) types of solid waste received, and
    b) quantities of solid waste received.

    All submittals in response to this specific condition shall be submitted to: Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, with a copy to: Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

49. Operation Permit Renewal: An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit. (Rule 62-4.090, F.A.C.).

50. Closure Permit Requirements: At least 90 days prior to the date when wastes will no longer be accepted, the owner or operator shall submit a closure permit application to the Department.

51. Solid Waste Disposal Rate: The average solid waste disposal rate for this source is 1700 tons per day as stated in the application. Actual operating rates may vary depending upon business conditions.

52. Substantial Changes or Revisions: The Department shall be notified and approval obtained prior to executing any substantial changes or revisions to the construction and operation authorized by this permit.

53. Financial Responsibility: The permittee shall maintain financial assurance in accordance with the requirements of Rule 62-701.630, F.A.C. Proof that the financial mechanisms are established and funded in accordance with Rule 62-701.630, F.A.C. and 40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, F.A.C. shall be submitted to the Department sixty (60) days prior to the acceptance of any solid waste at the facility. All submittals in response to this specific condition shall be sent to: Department of Environmental Protection, Financial Coordinator, Solid Waste Section, Twin Towers Office Building, 2600 Blair Stone Road, MS-4565, Tallahassee, Florida 32399-2400, **with a copy to:** Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

54. Annual Cost Estimates and Financial Instrument Adjustments: The permittee shall, in addition to annually adjusting the closure and long-term care cost estimates, adjust the financial assurance mechanism to reflect an increase in cost estimates. Cost estimate adjustments shall be in accordance with Rule 62-701.630(4), F.A.C. Instrument adjustments shall be in accordance with Rule 62-701.630, F.A.C. and 40 CFR Part 264, Subpart H as adopted by reference in Rule 62-701.630, F.A.C. Documentation of financial mechanism increases shall be submitted to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, Twin Towers Office Building, 2600 Blair Stone Road, MS-4565, Tallahassee, Florida 32399-2400. All estimate update submittals shall be sent to: Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

55. Prevention of Significant Deterioration (PSD) Requirements: The landfill owner or operator is not required to obtain any air construction permit unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. A landfill for which construction or modification is subject to PSD requirements must make application to the Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.

56. Title V Permit Requirements: The landfill owner or operator is not required to obtain any air operating permit unless the landfill is required to obtain a Title V air operating permit (Title V permit) pursuant to Section 403.0872, F.S. A landfill is required to obtain a Title V permit if the landfill (or the total facility, if the landfill is contiguous or part of a larger facility) has the potential to emit 10 TPY of any hazardous air pollutant, 25 TPY of any combination of hazardous air pollutants or 100 TPY of any other regulated air pollutant. A landfill is also required to obtain a Title V permit if the maximum design capacity as defined in 40 CFR 60, Subpart WWW, is equal or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, F.A.C. and Chapter 62-213, F.A.C. Title V applications shall be submitted to the Central District Air Program Administrator.

57. 40 CFR 60 Requirements: The permittee shall comply with the applicable requirements of 40 CFR 60, Subparts WWW and Cc, as adopted by reference at Rule 62-204.800, F.A.C. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

ISSUED: October 18, 2002

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

William M. Bostwick for

Vivian F. Garfein
Director, Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803

EXHIBIT I

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

WACS FACILITY ID: 89455

MONITORING PLAN IMPLEMENTATION SCHEDULE

GENERAL

1. The permittee must install all monitoring wells and collect the initial ground-water quality samples in accordance with this Monitoring Plan prior to any waste being accepted by the facility.

2. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with **Chapter 62-160 Florida Administrative Code (F.A.C.)**. Approved methods as published by the Department or as published in Standard Methods, ASTM, or EPA Methods shall be used.

3. The organization collecting samples at this site must use the Field and Laboratory Standard Operating Procedures (DEP-SOP-001/01 and DEP SOP-002/01) in Chapter 62-160, F.A.C. Sampling personnel must have a copy of the SOP for purging and sampling in the field when sampling and must be knowledgeable of its contents, procedures, and forms. The laboratory designated to conduct the chemical analyses must be certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP). This Certification must be for the test method and analyte(s) that are reported.

4. If, at any time, analyses show that ground water standards or minimum criteria are exceeded in the detection wells or at the edge of the Zone of Discharge, the Permittee shall resample the wells within thirty (30) days after the sampling data are received, to confirm the data. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data are confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring in accordance with Rule 62-701.510(7) F.A.C.

5. The Department must be notified in writing at least fourteen (14) days prior to the installation and/or sampling of any monitoring well(s).

GROUND WATER QUALITY MONITORING

6. The forty-five (45) ground water monitoring wells designated for water quality testing are listed on Attachment A and are shown on Attachment B. The piezometers intended to be used for water level measurements are shown on Attachment C (Note:

Landfill cells 1-4 will be constructed over piezometers DP-1, DP-2, DP-3 and DP-4 and these piezometers will be properly abandoned during site preparation activities).

NOTE: Unless otherwise approved by the Department, wells with high turbidities must be remediated or reinstalled to reduce the turbidity value to less than 20 NTU's prior to sample collection. Should any ground water sample exhibit dissolved oxygen concentrations greater than 20% of oxygen saturation at the field measured temperature, the sampled well must be repurged then resampled as soon as an acceptable dissolved oxygen value has been attained unless it can be demonstrated that insitu ground water contains higher levels of dissolved oxygen. All water quality analyses will be performed on unfiltered samples unless approved by the Department.

7. The initial samples collected from the forty-five (45) ground water monitoring wells shall be analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), total ammonia as N, chlorides, nitrate, total dissolved solids, iron, mercury, sodium, and the EPA 40 CFR, Part 258, Appendix I and Appendix II parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria for ground water quality** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

8. Samples from the forty-five (45) ground water monitoring wells shall be collected semi-annually and analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), total ammonia as N, chlorides, nitrate, total dissolved solids, iron, mercury, sodium, and the EPA 40 CFR, Part 258, Appendix I parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria for ground water quality** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

9. Ground water levels in all wells, whether sampled or not, and all piezometers must be measured to the nearest 0.01 foot and reported semiannually unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements must be referenced to the National Geodetic Vertical Datum of 1929 (NGVD).

SURFACE WATER MONITORING

10. The two (2) surface water sites included in this monitoring plan are SW-3 and SW-4. They are listed on Attachment A and shown on Attachment D. Surface water samples should be collected during the semiannual ground water sampling events; however, no surface water sample will be collected during a semiannual sampling event in which the Bull Creek is not flowing. This does not preclude the permittee, however,

from voluntarily sampling the creek on an irregular frequency during the rainy season, or at other times, when there is flow in Bull Creek.

11. The initial samples from two (2) surface water monitoring sites shall be collected and analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), unionized ammonia (NH_3), total hardness as $CaCO_3$, total organic carbon, total dissolved solids, total suspended solids, biochemical oxygen demand (5 day), chemical oxygen demand, total nitrogen as N, nitrate as N, total phosphates as P, chlorophyll A, iron, mercury, and the EPA 40 CFR, Part 258, Appendix I parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

12. Samples from the two (2) surface water monitoring sites shall be collected semi-annually and analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), unionized ammonia (NH_3), total hardness as $CaCO_3$, total organic carbon, total dissolved solids, total suspended solids, biochemical oxygen demand (5 day), chemical oxygen demand, total nitrogen as N, nitrate as N, total phosphates as P, chlorophyll A, iron, mercury, and the EPA 40 CFR, Part 258, Appendix I parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

13. Surface water elevations at sampling locations SW-3 and SW-4 must be measured to the nearest 0.01 foot on the same day as ground water levels in the wells and piezometers and reported semiannually unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements must be referenced to NGVD.

LEACHATE QUALITY MONITORING

14. The sites designated for leachate quality testing are L-1, L-2, L-3 and L-4. The sites are listed on Attachment A and shown on Attachment B.

15. Samples from the leachate monitoring sites shall be collected annually and analyzed for dissolved oxygen (field), pH (field), specific conductance (field) total ammonia as N, bicarbonate, chlorides, nitrate, total dissolved solids, iron, mercury, sodium and the EPA 40 CFR, Part 258, Appendix II parameters. **All analyses must use detection limits at or below 40 CFR Part 261.24 standards**.

MONITORING WELL REQUIREMENTS

16. If a monitoring well becomes damaged or inoperable, the Permittee shall notify the Department in writing within seven (7) days. The written report shall describe what problem has occurred and the remedial measures that have been taken to prevent a recurrence. The Department can require the replacement of inoperable monitoring wells.

17. New or replacement monitoring well design or placement must be approved by the Department. Proposed well construction details based on site specific borings must be submitted with all supporting data (grain size distribution analyses, in-situ hydraulic conductivity testing, depth to water, etc.) for Department approval prior to well installation. Use of hollow stem auger equipment is recommended. Other drilling methods must be approved by the Department prior to well installation.

18. All wells shall be clearly and permanently labeled and the well site maintained so that the well is visible at all times. Protective barriers must be installed at all wells which may be subject to damage by heavy equipment or traffic.

19. An abandonment plan for abandoning any well which is unsuitable for ground water monitoring must be approved by the Department prior to abandonment.

REPORTING REQUIREMENTS

GENERAL

20. Well completion reports for new monitoring wells must be submitted to the Department on the attached Ground Water Monitoring Well Completion Report Form thirty (30) days after installation. Note that the top of casing elevation of each well, to an accuracy of 0.01 feet, and the latitude and longitude of each well in degrees, minutes and seconds, to two (2) decimal places, with an accuracy of 15 feet, must be determined and certified by a Florida Registered Surveyor and provided on the form. In addition, as-built well construction diagrams and soil boring logs that cover the entire depth of the monitoring well(s) must be submitted to the Department.

21 A drawing must be submitted within sixty (60) days following monitoring well installation showing the location of all monitoring wells (active and abandoned), water bodies and waste filled areas. The location of features on the drawing must be horizontally and vertically located by standard surveying techniques. The drawing shall include all monitoring well locations, each monitoring well name and identification (WACS) number, the top of casing, pad elevation, permanent benchmark(s) and/or corner monument marker(s) referenced to NGVD with an accuracy of 0.01 feet. The survey shall be conducted and certified by a Florida Registered Surveyor.

22. A total depth measurement must be made on all wells at time of permit renewal. This measurement is to be reported as total apparent depth below ground surface and should be compared to the original total depth of the well.

SEMI-ANNUALLY

23. The required monitoring results must be submitted to the Department within thirty (30) days of receipt from the laboratory. These data shall be accompanied by a Ground Water Monitoring Report form (FDEP Form 62-522.900(2). A copy of this form is attached. The monitoring reports shall include all the parameters described above.

There are two options for reporting monitoring results.

1. Paper Reporting: Parameter Report Forms FDEP Forms 62-522.900(2) are attached for reporting semi-annual analyses. In order to facilitate entry of this data into the State computer system, these forms or exact replicas must be used and must not be altered as to content. The original copies of the forms should be retained so that the necessary information is available to properly complete future reports.

2. Electronic Reporting: The monitoring data may be submitted electronically on floppy diskettes or compact disc media readable by a Microsoft Windows computer. The Department may use electronic-tools (e.g. Validator) to conduct data quality review and compliance checking. Electronic laboratory data must be submitted in a specific format called a tab-delimited text file with the first line of the file being the data field names. (Note: Microsoft Excel produces this file format when the "Save As" and "Text (Tab Delimited)" options are selected.) The following data fields must be present in the data:

- Analytical Method
- Date of Analysis
- Date of Preparation (if applicable)
- Date of Sampling
- Detection Limit of the Analysis
- DOH Certification Number of the Laboratory
- Matrix (Aqueous, Drinking Water, Saline/Estuarine, or Solids)
- Analytical Result
- Appropriate Data Qualifiers (as listed in Florida Administrative Code 62-160)
- Analytical Result Units
- WACS Testsite ID
- Parameter Name (Name of the Compound Analyzed for/Test Performed)
- STORET Parameter Code (as provided by the Department's Bureau of Solid and Hazardous Waste; must be six digits: e.g. 039430 for Isodrin)

All dates are to be submitted in MM/DD/YYYY HH:MI:SS format (e.g. 05/14/1973 17:18:00 for May 14, 1973, 5:18:00 p.m.). A sample of an acceptable data format will be posted to the Bureau of Laboratories web site, http://www.floridadep.org/labs/software

The submittal shall also include laboratory reports, Chain of Custody sheets, field data sheets, Water Sampling Logs (attached), ground water contour maps, a summary of any water quality standards or minimum criteria that are exceeded and any other

required documents. These reports may be submitted electronically in portable document format (PDF) in lieu of a paper copy. If a specific document has a requirement to be signed and sealed, an original signed and sealed paper copy must also be submitted unless it is specifically permitted by law or rule to be signed electronically.

Please note that the Department of Environmental Protection's (DEP's) new Standard Operating Procedures for Field Activities, DEP-SOP-001/01, January 01, 2002, become effective on April 9, 2002. The revised protocols, including those for ground water sampling (FS2200), can be accesses at the DEP's Internet address http://www.dep.state.fl.us/labs/qa/sops.htm

24. Water levels in all monitoring wells, whether sampled or not, and all surface water sites must be measured to the nearest 0.01 foot and reported semi-annually unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements should be reported in a table that includes well or surface water point name, date water level measured, measuring point elevation referenced to NGVD, depth to water and calculated water level elevation referenced to NGVD.

25. A ground water elevation contour map for each monitored aquifer zone must be submitted semi-annually to the Department. Ground water elevation contour map(s) should include monitoring well locations, ground water elevation at each monitoring well location referenced to NGVD, a bar scale, ground water contour interval, date of measurement and ground water flow direction. The map(s) must incorporate adjacent and on-site surface water elevations where appropriate. These maps shall be signed and sealed pursuant to Florida Statutes (F.S.) Chapters 471 and 492 which require that documents requiring the practice of professional engineering or professional geology, as described in Chapter 471 or 492, F.S., be signed and sealed by the professional(s) who prepared or approved them. This certification must be made by a registered professional who is able to demonstrate competence in this subject area.

BIENNIALLY

26. A technical report shall be submitted to the Department every two years, and shall be updated at the time of permit renewal. The report shall summarize and interpret the water quality data and water level measurements collected during the past four years. The report shall contain, at a minimum, the following:

a. Tabular and graphical displays of any data which shows that a monitoring parameter has been detected, including hydrographs for all monitoring wells.
b. Trend analyses of any monitoring parameters detected.
c. Comparisons among shallow, middle, and deep zone wells.
d. Comparison between upgradient and downgradient wells.
e. Correlation between related parameters such as total dissolved solids and specific conductance.
f. Discussion of erratic and/or poorly correlated data.

g. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates.

h. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

This report must be signed and sealed pursuant to Florida Statutes (F.S.) Chapters 471 and 492 which require that documents requiring the practice of professional engineering or professional geology, as described in Chapter 471 or 492, F.S., be signed and sealed by the professional(s) who prepared or approved them. This certification must be made by a registered professional who is able to demonstrate competence in the subject area(s) addressed within the sealed document.

ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL
WACS FACILITY ID: 89544
MONITORING SITES

TESTSITE SITE NAME	WACS TESTSITE ID	TYPE	ZONE/LOCATION MONITORED
GROUND WATER			
MW-1A	19900	B	UPPER SURFICIAL
MW-1B	19901	B	INTERMEDIATE SURFICIAL
MW-1C	19902	B	DEEP SURFICIAL
MW-2A	19903	B	UPPER SURFICIAL
MW-2B	19904	B	INTERMEDIATE SURFICIAL
MW-2C	19905	B	DEEP SURFICIAL
MW-3A	19906	B	UPPER SURFICIAL
MW-3B	19907	B	INTERMEDIATE SURFICIAL
MW-3C	19908	B	DEEP SURFICIAL
MW-4A	19909	B	UPPER SURFICIAL
MW-4B	19910	B	INTERMEDIATE SURFICIAL
MW-4C	19911	B	DEEP SURFICIAL
MW-5A	19912	B	UPPER SURFICIAL
MW-5B	19913	B	INTERMEDIATE SURFICIAL
MW-5C	19914	B	DEEP SURFICIAL
MW-6A	19915	B	UPPER SURFICIAL
MW-6B	19916	B	INTERMEDIATE SURFICIAL
MW-6C	19917	B	DEEP SURFICIAL
MW-7A	19918	C	UPPER SURFICIAL

ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL
WACS FACILITY ID: 89544
MONITORING SITES

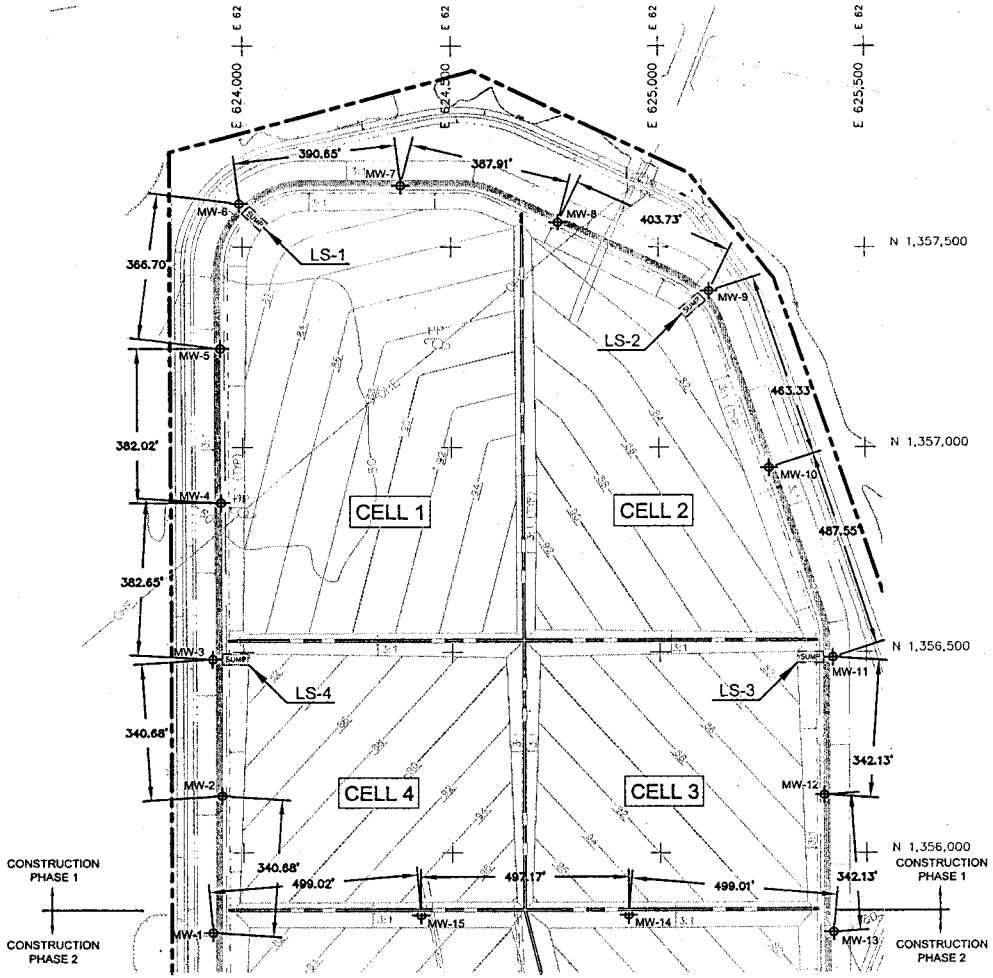
TESTSITE SITE NAME	WACS TESTSITE ID	TYPE	ZONE/LOCATION MONITORED
MW-7B	19919	C	INTERMEDIATE SURFICIAL
MW-7C	19920	C	DEEP SURFICIAL
MW-8A	19921	C	UPPER SURFICIAL
MW-8B	19922	C	INTERMEDIATE SURFICIAL
MW-8C	19923	C	DEEP SURFICIAL
MW-9A	19924	C	UPPER SURFICIAL
MW-9B	19925	C	INTERMEDIATE SURFICIAL
MW-9C	19926	C	DEEP SURFICIAL
MW-10A	19927	C	UPPER SURFICIAL
MW-10B	19928	C	INTERMEDIATE SURFICIAL
MW-10C	19929	C	DEEP SURFICIAL
MW-11A	19930	C	UPPER SURFICIAL
MW-11B	19931	C	INTERMEDIATE SURFICIAL
MW-11C	19932	C	DEEP SURFICIAL
MW-12A	19933	C	UPPER SURFICIAL
MW-12B	19934	C	INTERMEDIATE SURFICIAL
MW-12C	19935	C	DEEP SURFICIAL
MW-13A	19936	C	UPPER SURFICIAL
MW-13B	19937	C	INTERMEDIATE SURFICIAL
MW-13C	19938	C	DEEP SURFICIAL

ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL
WACS FACILITY ID: 89544
MONITORING SITES

TESTSITE SITE NAME	WACS TESTSITE ID	TYPE	ZONE/LOCATION MONITORED
MW-14A	19939	C	UPPER SURFICIAL
MW-14B	19940	C	INTERMEDIATE SURFICIAL
MW-14C	19941	C	DEEP SURFICIAL
MW-15A	19942	C	UPPER SURFICIAL
MW-15B	19943	C	INTERMEDIATE SURFICIAL
MW-15C	19944	C	DEEP SURFICIAL
SURFACE WATER			
SW-3	19945	C	DOWN STREAM ON BULL CREEK
SW-4	19946	B	UP STREAM NW OF SITE
LEACHATE			
L-1	19947	C	CELL 1 PRIMARY RISER
L-2	19948	C	CELL 2 PRIMARY RISER
L-3	19949	C	CELL 3 PRIMARY RISER
L-4	19950	C	CELL 4 PRIMARY RISER

ATTACHMENT B



PHASE 1 GROUNDWATER MONITORING WELL AND LEACHATE SAMPLING LOCATION LAYOUT

SCALE: 1" = 300'

NORTH

0 150' 300' 600'

SCALE: 1" = 300'

WELL	Northing	Easting
MW-1	1355801.76	623927.76
MW-2	1356141.76	623949.18
MW-3	1356481.70	623926.60
MW-4	1356863.75	623947.95
MW-5	1357245.77	623947.30
MW-6	1357609.65	623992.77
MW-7	1357655.74	624380.68
MW-8	1357563.00	624757.34
MW-9	1357390.93	625122.57
MW-10	1356950.48	625266.36
MW-11	1356487.15	625418.09
MW-12	1356145.69	625396.67
MW-13	1355804.30	625419.26
MW-14	1355846.36	624922.02
MW-15	1355845.51	624424.85

LEGEND

MW-1 GROUNDWATER MONITORING WELL LOCATION.

AT EACH LOCATION A GROUP OF THREE WELLS WILL BE DRILLED TO SHALLOW (MW-1a), INTERMEDIATE (MW-1b), AND DEEP (MW-1c) ELEVATIONS. THESE WELLS WILL BE SPACED 5 FEET APART AND ARRANGED PARALLEL TO THE PERIMETER MAINTENANCE ROAD OR INTERCELL BERM ALIGNMENTS.

SUMP LS-1 LEACHATE SAMPLE LOCATION

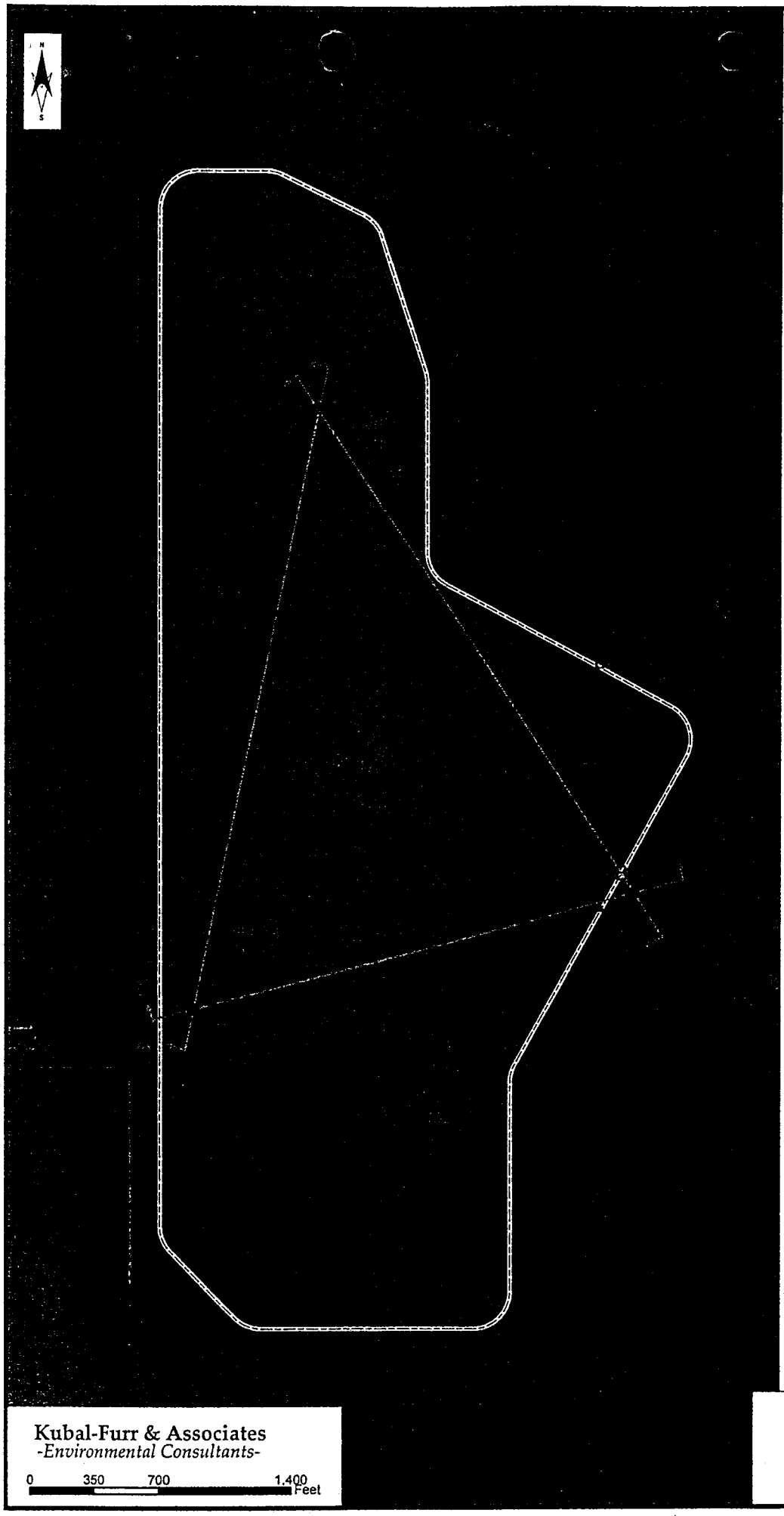
LEACHATE SAMPLES WILL BE OBTAINED FROM THE PRIMARY LEACHATE SUMP.

NOTES:

1. NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)(FEET).
3. PHASE I REPRESENTS LANDFILL DEVELOPMENT IN THE FIRST 5 YEARS OF OPERATION.

GeoSyntec Consultants
TAMPA, FLORIDA

PROJECT NO.	FW0400	FIGURE NO.	RFI-1
DATE.	7 JUNE 02	FILE NO.	0400F0057



Legend

Piezometer

▲ *DP-1*

Sonic Boring Location

● *SB-1*

Cross Section Location

Limit of Waste

Property Line

Location	Approx. Depth (ft, bls)
DP-1	50
DP-2	15
DP-3	50
DP-4	15
DP-5	50
DP-6	15
DP-7*	15
DP-8*	50
DP-9	50
DP-10	15
DP-11	50
DP-12	15
DP-13	15
DP-14	15
DP-15	50
DP-16	15
DP-17	50
DP-18	50
DP-19	15
DP-20	15
DP-21	50
DP-22	15
DP-23	50
DP-24	15
SZ-1*	78.3
SZ-2	72
SZ-3	75.9
SB-1	177
SB-2	147
SB-3	157

*Note: Piezometer instrumented with transducer / data logger.

Kubal-Furr & Associates
-Environmental Consultants-

0 350 700 1,400 Feet

Figure 2. Site Plan
OMNI Waste of Osceola County, LLC
Oak Hammock Disposal
Osceola County, Florida

ATTACHMENT C

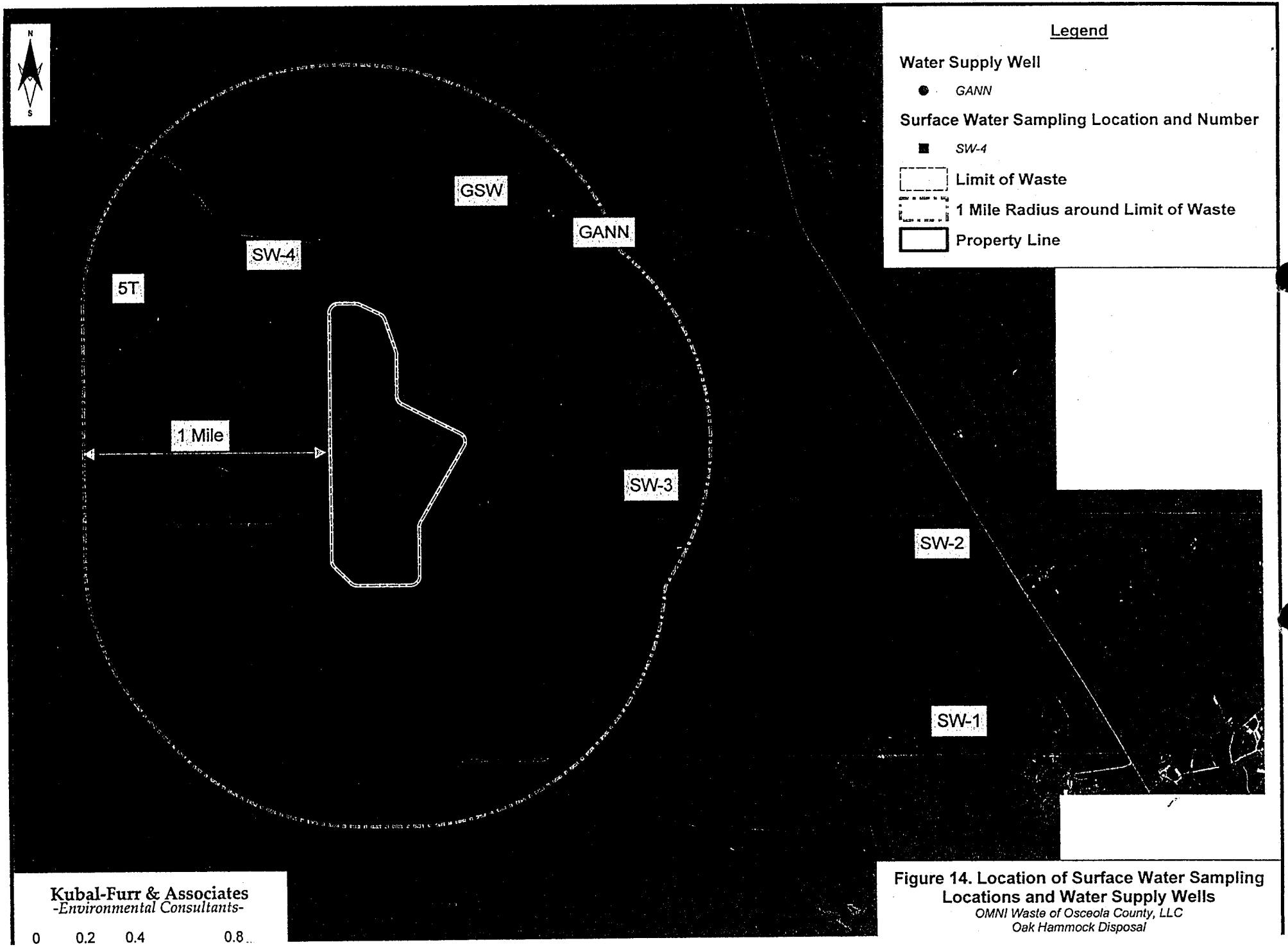


Figure 14. Location of Surface Water Sampling Locations and Water Supply Wells

OMNI Waste of Osceola County, LLC
Oak Hammock Disposal

ATTACHMENT D

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 1 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
00010	Temperature (field)					°C	
00299	Dissolved Oxygen (field by probe)					mg/L	
00406	pH (field)					STD	
00094	Spec. Conductance (field)					umhos/cm	
82078	Turbidity (field)					NTU's	
00610	Total Ammonia as N					mg/L	
00940	Chlorides					mg/L	
00620	Nitrate as N					mg/L	
70300	Total Dissolved Solids					mg/L	
00440	Bicarbonate as HCO_3					mg/L	
	METALS						
01097	Antimony					ug/L	
01002	Arsenic					ug/L	
01007	Barium					ug/L	
01012	Beryllium					ug/L	
01027	Cadmium					ug/L	
01034	Chromium					ug/L	
01037	Cobalt					ug/L	
01042	Copper					ug/L	
01045	Iron					ug/L	
01051	Lead					ug/L	
71900	Mercury					ug/L	
01067	Nickel					ug/L	
01147	Selenium					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 2 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
01077	Silver					ug/L	
00929	Sodium					mg/L	
01059	Thallium					ug/L	
01102	Tin					ug/L	
01087	Vanadium					ug/L	
01092	Zinc					ug/L	
	ORGANIC CONSTITUENTS						
34205	Acenaphthene					ug/l	
34200	Acenaphthylene					ug/l	
81552	Acetone					ug/L	
76997	Acetonitrile; Methyl cyanide					ug/L	
81553	Acetophenone					ug/L	
73501	2-Acetylaminofluorene; 2-AAF or Acetamide,N-(9H-Fluoren-2yl)-					ug/L	
34210	Acrolein					ug/L	
34215	Acrylonitrile					ug/L	
39330	Aldrin					ug/L	
78109	Allyl chloride					ug/L	
77581	4-Aminobiphenyl					ug/L	
34220	Anthracene					ug/l	
34030	Benzene					ug/L	
34526	Benzo(a)anthracene					ug/l	
34230	Benzo(b)fluoranthene					ug/L	
34242	Benzo(k)fluoranthene					ug/l	
34247	Benzo(a)pyrene					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 3 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34521	Benzo(g,h,i)perylene					ug/l	
77147	Benzyl alcohol					ug/l	
39337	alpha-BHC					ug/L	
39338	beta-BHC					ug/L	
46323	delta-BHC					ug/L	
39340	gamma-BHC; Lindane					ug/L	
34273	Bis(2-chloroethyl)ether					ug/l	
34278	Bis(2-chloroethoxy)methane					ug/l	
34283	Bis (2-chloro-1-methylethyl) ether or propane, 2,2'-oxybis(1-chloro)- or Bis(2-chloroisopropyl) ether					ug/L	
39100	Bis(2-ethylhexyl)phthalate					ug/l	
73085	Bromochloromethane					ug/L	
32101	Bromodichloromethane					ug/L	
32104	Bromoform					ug/L	
34636	4-Bromophenyl phenyl ether					ug/l	
34292	Butyl benzyl phthalate					ug/L	
77041	Carbon Disulfide					ug/L	
32102	Carbon Tetrachloride					ug/L	
39350	Chlordane					ug/L	
73529	p-Chloroaniline					ug/L	
34301	Chlorobenzene					ug/L	
39460	Chlorobenzilate					ug/L	
34452	p-chloro-m-cresol					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 4 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34311	Chloroethane					ug/L	
32106	Chloroform					ug/L	
34581	2-Chloronaphthalene					ug/l	
34586	2-Chlorophenol					ug/l	
34641	4-Chlorophenyphenyl ether					ug/l	
81520	Chloroprene					ug/L	
34320	Chrysene					ug/L	
77151	m-Cresol					ug/L	
77152	o-Cresol					ug/L	
77146	p-Cresol					ug/L	
00720	Cyanide					mg/l	
39730	2,4-D; 2,4-Dichlorophenoxyacetic					ug/L	
39360	4,4-DDD					ug/L	
39365	4,4-DDE					ug/L	
39370	4,4-DDT					ug/L	
73540	Diallate					ug/L	
34556	Dibenz(a,h)anthracene					ug/L	
81302	Dibenzofuran					ug/L	
32105	Dibromochloromethane					ug/L	
49146	1,2-Dibromo-3-chloropropane					ug/L	
77651	1,2-Dibromoethane					ug/L	
39110	Di-n-butylphthalate					ug/l	
34536	1,2-Dichlorobenzene					ug/L	
34566	1,3-Dichlorobenzene					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 5 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34571	1,4-Dichlorobenzene					ug/L	
34631	3,3-Dichlorobenzidine					ug/l	
77268	trans-1,4-Dichloro-2-butene					ug/L	
34668	Dichlorodifluoromethane					ug/L	
34496	1,1-Dichloroethane					ug/L	
34531	1,2-Dichloroethane					ug/L	
34501	1,1-Dichloroethene					ug/L	
77093	cis-1,2-Dichloroethene					ug/L	
34546	trans-1,2-Dichloroethene					ug/L	
34601	2,4-Dichlorophenol					ug/l	
77541	2,6-Dichlorophenol					ug/L	
34541	1,2-Dichloropropane					ug/L	
77173	1,3-Dichloropropane					ug/L	
77170	2,2-Dichloropropane					ug/L	
77168	1,1-Dichloropropene					ug/L	
34704	cis-1,3-Dichloropropene					ug/L	
34699	trans-1,3-Dichloropropene					ug/L	
39380	Dieldrin					ug/L	
34336	Diethyl phthalate					ug/l	
73553	Thionazin					ug/L	
46314	Dimethoate					ug/L	
73558	p-(Dimethylamino)azobenzene					ug/L	
73559	7,12-Dimethylbenz(a)anthracene					ug/L	
82213	3,3-Dimethylbenzidine					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 6 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34606	2,4-Dimethylphenol					ug/l	
34341	Dimethyl phthalate					ug/l	
45622	m-Dinitrobenzene					ug/L	
34657	2-Methyl-4,6-dinitrophenol					ug/l	
34616	2,4-Dinitrophenol					ug/l	
34611	2,4-Dinitrotoluene					ug/l	
34626	2,6-Dinitroltoluene					ug/l	
81287	DNBP (Dinoseb)					ug/L	
34596	Di-n-octyl phthalate					ug/l	
77579	Diphenylamine					ug/L	
81888	Disulfoton					ug/L	
34361	Endosulfan I					ug/L	
34356	Endosulfan II					ug/L	
34351	Endosulfan sulfate					ug/L	
39390	Endrin					ug/L	
34366	Endrin aldehyde					ug/L	
34371	Ethylbenzene					ug/L	
73570	Ethyl methacrylate					ug/L	
73571	Ethyl methanesulfonate					ug/L	
38462	Famphur					ug/L	
34376	Fluoranthene					ug/l	
34381	Fluorene					ug/l	
39410	Heptachlor					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 7 of 10)

WACS FACILITY ID 89544

WACS TESTSITE ID _____

TESTSITE SITE NAME _____

CLASSIFICATION OF GROUNDWATER G-II

SAMPLE DATE _____

ANALYSIS DATE _____

WELL TYPE:_____ (B) Background
(D) Detection
(C) Compliance
(O) Other

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39420	Heptachlor epoxide					ug/L	
39700	Hexachlorobenzene					ug/l	
34391	Hexachlorobutadiene					ug/l	
34386	Hexachlorocyclopentadiene					ug/L	
34396	Hexachloroethane					ug/l	
73576	Hexachloropropene					ug/L	
34403	Indeno (1,2,3-c,d) pyrene					ug/l	
77033	Isobutyl alcohol					ug/L	
39430	Isodrin					ug/L	
34408	Isophorone					ug/l	
73582	Isosafrole					ug/L	
81281	Kepone					ug/L	
81593	Methacrylonitrile					ug/L	
73589	Methapyrilene					ug/L	
39480	Methoxychlor					ug/L	
34413	Methyl bromide						
77103	Methyl butyl ketone					ug/L	
34418	Methyl chloride					ug/L	
73591	3-Methylcholanthrene					ug/L	
81595	Methyl ethyl ketone					ug/L	
77424	Methyl iodide					ug/L	
81597	Methyl methacrylate					ug/L	
73595	Methyl methanesulfonate					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 8 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
77416	2-Methylnaphthalene					ug/L	
39600	Methyl Parathion					ug/L	
77596	Methylene Bromide					ug/L	
34423	Methylene Chloride					ug/L	
81596	Methyl isobutyl ketone					ug/L	
34696	Naphthalene					ug/l	
73599	1,4-Naphthoquinone or 1,4-Naphthalenedione					ug/L	
73600	1-Naphthylamine					ug/L	
73601	2-Naphthylamine					ug/L	
78142	o-Nitroaniline					ug/L	
78300	m-Nitroaniline					ug/L	
30342	p-Nitroaniline or 4-nitro-benzenamine					ug/L	
34447	Nitrobenzene					ug/l	
34591	2-Nitrophenol					ug/l	
34646	4-Nitrophenol					ug/l	
73609	N-Nitrosodi-n-butylamine					ug/L	
73611	N-Nitrosodiethylamine					ug/L	
34438	N-Nitrosodimethylamine					ug/l	
34428	N-Nitrosodipropylamine					ug/l	
34433	N-Nitrosodiphenylamine					ug/l	
73613	N-Nitrosomethylethalamine					ug/L	
73619	N-Nitrosopiperidine					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 9 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
78206	N-Nitrosopyrrolidine					ug/L	
73622	5-Nitro-o-toluidine					ug/L	
39540	Parathion					ug/L	
77793	Pentachlorobenzene					ug/L	
81316	Pentachloronitrobenzene					ug/L	
39032	Pentachlorophenol					ug/l	
73626	Phenacetin					ug/L	
34461	Phenanthrene					ug/l	
34694	Phenol					ug/l	
73628	p-Phenylenediamine					ug/L	
46313	Phorate					ug/L	
39516	Polychlorinated biphenyls					ug/L	
39080	Pronamide					ug/L	
77007	Propionitrile					ug/L	
34469	Pyrene					ug/l	
77545	Safrole					ug/L	
39760	Silvex; 2,4,5-TP					ug/L	
77128	Styrene					ug/L	
00745	Sulfide					ug/L	
39740	2,4,5-Trichlorophenoxyacetic acid					ug/L	
77734	1,2,4,5-Tetrachlorobenzene					ug/L	
77562	1,1,1,2-Tetrachloroethane					ug/l	
34516	1,1,2,2-Tetrachloroethane					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 10 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34475	Tetrachloroethene					ug/L	
77770	2,3,4,6-Tetrachlorophenol					ug/L	
34010	Toluene					ug/L	
77142	o-Toluidine					ug/L	
39400	Toxaphene					ug/L	
34551	1,2,4-Trichlorobenzene					ug/l	
34506	1,1,1-Trichloroethane					ug/L	
34511	1,1,2-Trichloroethane					ug/L	
39180	Trichloroethene					ug/L	
34488	Trichlorofluoromethane					ug/L	
77687	2,4,5-Trichlorophenol					ug/l	
34621	2,4,6-Trichlorophenol					ug/l	
77443	1,2,3-Trichloropropane					ug/L	
73652	0,0,0-Triethyl phosphorothioate					ug/L	
73653	sym-Trinitrobenzene					ug/L	
77057	Vinyl Acetate					ug/L	
39175	Vinyl Chloride					ug/L	
34020	Xylenes					ug/L	
72020 or 82545	Elev.(Ft) above mean sealevel Or Water/Sea Level						

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 1 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
00010	Temperature (field)					°C
00299	Dissolved Oxygen (field by probe)					mg/L
00406	pH (field)					STD
00094	Spec. Conductance (field)					umhos/cm
82078	Turbidity (field)					NTU's
00610	Total Ammonia as N					mg/L
00940	Chlorides					mg/L
00620	Nitrate as N					mg/L
70300	Total Dissolved Solids					mg/L
	METALS					
01097	Antimony					ug/L
01002	Arsenic					ug/L
01007	Barium					ug/L
01012	Beryllium					ug/L
01027	Cadmium					ug/L
01034	Chromium					ug/L
01037	Cobalt					ug/L
01042	Copper					ug/L
01045	Iron					ug/L
01051	Lead					ug/L
71900	Mercury					ug/l

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 62-522.900(2) Effective April 14, 1994

09/09/02

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 2 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background
(D) Detection
(C) Compliance
(O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
01067	Nickel					ug/L
01147	Selenium					ug/L
01077	Silver					ug/L
00929	Sodium					mg/L
01059	Thallium					ug/L
01087	Vanadium					ug/L
01092	Zinc					ug/L
	ORGANIC CONSTITUENTS					
81552	Acetone					ug/L
34215	Acrylonitrile					ug/L
34030	Benzene					ug/L
73085	Bromochloromethane					ug/L
32101	Bromodichloromethane					ug/L
34413	Bromomethane					ug/L
32104	Bromoform					ug/L
77041	Carbon Disulfide					ug/L
32102	Carbon Tetrachloride					ug/L
34301	Chlorobenzene					ug/L
34311	Chloroethane					ug/L
32106	Chloroform					ug/L

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 3 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
34418	Chloromethane					ug/L
32105	Dibromochloromethane					ug/L
49146	1,2-Dibromo-3-chloropropane					ug/L
77651	1,2-Dibromoethane					ug/L
77596 46361	Methylene Bromide or Dibromomethane					ug/L
34536	1,2-Dichlorobenzene					ug/L
34571	1,4-Dichlorobenzene					ug/L
77268	trans-1,4-Dichloro-2-butene					ug/L
34496	1,1-Dichloroethane					ug/L
34531	1,2-Dichloroethane					ug/L
34501	1,1-Dichloroethene					ug/L
77093	cis-1,2-Dichloroethene					ug/L
34546	trans-1,2-Dichloroethene					ug/L
34541	1,2-Dichloropropane					ug/L
34704	cis-1,3-Dichloropropene					ug/L
34699	trans-1,3-Dichloropropene					ug/L
34371	Ethylbenzene					ug/L
77103	Methyl butyl ketone					ug/L
81595	Methyl ethyl ketone					ug/L
77424	Methyl iodide					ug/L
34423	Methylene Chloride					ug/L

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 4 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
81596	Methyl isobutyl ketone					ug/L
77128	Styrene					ug/L
77562	1,1,1,2-Tetrachloroethane					ug/l
34516	1,1,2,2-Tetrachloroethane					ug/L
34475	Tetrachloroethene					ug/L
34010	Toluene					ug/L
34506	1,1,1-Trichloroethane					ug/L
34511	1,1,2-Trichloroethane					ug/L
39180	Trichloroethene					ug/L
34488	Trichlorofluoromethane					ug/L
77443	1,2,3-Trichloropropane					ug/L
77057	Vinyl Acetate					ug/L
39175	Vinyl Chloride					ug/L
34020	Xylenes					ug/L
72020 Or 82545	Elev.(Ft) above mean sealevel Or Water/Sea Level					

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 62-522.900(2) Effective April 14, 1994

09/09/02

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 1 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
00010	Temperature (field)					°C	
00299	Dissolved Oxygen (field by probe)					mg/L	
00406	pH (field)					STD	
00094	Spec. Conductance (field)					umhos/cm	
00610	Total Ammonia as N					mg/L	
00940	Chlorides					mg/L	
00620	Nitrate as N					mg/L	
70300	Total Dissolved Solids					mg/L	
00440	Bicarbonate as HCO_3					mg/L	
	METALS						
01097	Antimony					ug/L	
01002	Arsenic					ug/L	
01007	Barium					ug/L	
01012	Beryllium					ug/L	
01027	Cadmium					ug/L	
01034	Chromium					ug/L	
01037	Cobalt					ug/L	
01042	Copper					ug/L	
01045	Iron					ug/L	
01051	Lead					ug/L	
71900	Mercury					ug/L	
01067	Nickel					ug/L	
01147	Selenium					ug/L	
01077	Silver					ug/L	
00929	Sodium					mg/L	
01059	Thallium					ug/L	
01102	Tin					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 2 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
01087	Vanadium					ug/L	
01092	Zinc					ug/L	
	ORGANIC CONSTITUENTS						
34205	Acenaphthene					ug/l	
34200	Acenaphthylene					ug/l	
81552	Acetone					ug/L	
76997	Acetonitrile; Methyl cyanide					ug/L	
81553	Acetophenone					ug/L	
73501	2-Acetylaminofluorene; 2-AAF or Acetamide,N-(9H-Fluoren-2yl)-					ug/L	
34210	Acrolein					ug/L	
34215	Acrylonitrile					ug/L	
39330	Aldrin					ug/L	
78109	Allyl chloride					ug/L	
77581	4-Aminobiphenyl					ug/L	
34220	Anthracene					ug/l	
34030	Benzene					ug/L	
34526	Benzo(a)anthracene					ug/l	
34230	Benzo(b)fluoranthene					ug/L	
34242	Benzo(k)fluoranthene					ug/l	
34247	Benzo(a)pyrene					ug/l	
34521	Benzo(g,h,i)perylene					ug/l	
77147	Benzyl alcohol					ug/l	
39337	alpha-BHC					ug/L	
39338	beta-BHC					ug/L	
46323	delta-BHC					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 3 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39340	gamma-BHC; Lindane					ug/L	
34273	Bis(2-chloroethyl)ether					ug/l	
34278	Bis(2-chloroethoxy)methane					ug/l	
034283	Bis (2-chloro-1-methylethyl) ether or propane, 2,2'-oxybis(1-chloro)- or Bis(2-chloroisopropyl) ether					ug/L	
39100	Bis(2-ethylhexyl)phthalate					ug/l	
73085	Bromochloromethane					ug/L	
32101	Bromodichloromethane					ug/L	
32104	Bromoform					ug/L	
34636	4-Bromophenyl phenyl ether					ug/l	
34292	Butyl benzyl phthalate					ug/L	
77041	Carbon Disulfide					ug/L	
32102	Carbon Tetrachloride					ug/L	
39350	Chlordane					ug/L	
73529	p-Chloroaniline					ug/L	
34301	Chlorobenzene					ug/L	
39460	Chlorobenzilate					ug/L	
34452	p-chloro-m-cresol					ug/l	
34311	Chloroethane					ug/L	
32106	Chloroform					ug/L	
34581	2-Chloronaphthalene					ug/l	
34586	2-Chlorophenol					ug/l	
34641	4-Chlorophenyphenyl ether					ug/l	
81520	Chloroprene					ug/L	
34320	Chrysene					ug/L	
77151	m-Cresol					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 4 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
77152	o-Cresol					ug/L	
77146	p-Cresol					ug/L	
00720	Cyanide					mg/l	
39730	2,4-D; 2,4-Dichlorophenoxyacetic					ug/L	
39360	4,4-DDD					ug/L	
39365	4,4-DDE					ug/L	
39370	4,4-DDT					ug/L	
73540	Dialiate					ug/L	
34556	Dibenz(a,h)anthracene					ug/L	
81302	Dibenzofuran					ug/L	
32105	Dibromochloromethane					ug/L	
49146	1,2-Dibromo-3-chloropropane					ug/L	
77651	1,2-Dibromoethane					ug/L	
39110	Di-n-butylphthalate					ug/l	
34536	1,2-Dichlorobenzene					ug/L	
34566	1,3-Dichlorobenzene					ug/l	
34571	1,4-Dichlorobenzene					ug/L	
34631	3,3-Dichlorobenzidine					ug/l	
77268	trans-1,4-Dichloro-2-butene					ug/L	
34668	Dichlorodifluoromethane					ug/L	
34496	1,1-Dichloroethane					ug/L	
34531	1,2-Dichloroethane					ug/L	
34501	1,1-Dichloroethene					ug/L	
77093	cis-1,2-Dichloroethene					ug/L	
34546	trans-1,2-Dichloroethene					ug/L	
34601	2,4-Dichlorophenol					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 5 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
77541	2,6-Dichlorophenol					ug/L	
34541	1,2-Dichloropropane					ug/L	
77173	1,3-Dichloropropane					ug/L	
77170	2,2-Dichloropropane					ug/L	
77168	1,1-Dichloropropene					ug/L	
34704	cis-1,3-Dichloropropene					ug/L	
34699	trans-1,3-Dichloropropene					ug/L	
39380	Dieldrin					ug/L	
34336	Diethyl phthalate					ug/l	
73553	Thionazin					ug/L	
46314	Dimethoate					ug/L	
73558	p-(Dimethylamino)azobenzene					ug/L	
73559	7,12-Dimethylbenz(a)anthracene					ug/L	
82213	3,3-Dimethylbenzidine					ug/L	
34606	2,4-Dimethylphenol					ug/l	
34341	Dimethyl phthalate					ug/l	
45622	m-Dinitrobenzene					ug/L	
34657	2-Methyl-4,6-dinitrophenol					ug/l	
34616	2,4-Dinitrophenol					ug/l	
34611	2,4-Dinitrotoluene					ug/l	
34626	2,6-Dinitroltoluene					ug/l	
81287	DNBP (Dinoseb)					ug/L	
34596	Di-n-octyl phthalate					ug/l	
77579	Diphenylamine					ug/L	
81888	Disulfoton					ug/L	
34361	Endosulfan I					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 6 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34356	Endosulfan II					ug/L	
34351	Endosulfan sulfate					ug/L	
39390	Endrin					ug/L	
34366	Endrin aldehyde					ug/L	
34371	Ethylbenzene					ug/L	
73570	Ethyl methacrylate					ug/L	
73571	Ethyl methanesulfonate					ug/L	
38462	Famphur					ug/L	
34376	Fluoranthene					ug/l	
34381	Fluorene					ug/l	
39410	Heptachlor					ug/L	
39420	Heptachlor epoxide					ug/L	
39700	Hexachlorobenzene					ug/l	
34391	Hexachlorobutadiene					ug/l	
34386	Hexachlorocyclopentadiene					ug/L	
34396	Hexachloroethane					ug/l	
73576	Hexachloropropene					ug/L	
34403	Indeno (1,2,3-c,d) pyrene					ug/l	
77033	Isobutyl alcohol					ug/L	
39430	Isodrin					ug/L	
34408	Isophorone					ug/l	
73582	Isosafrole					ug/L	
81281	Kepone					ug/L	
81593	Methacrylonitrile					ug/L	
73589	Methapyrilene					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 7 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39480	Methoxychlor					ug/L	
34413	Methyl bromide					ug/L	
77103	Methyl butyl ketone					ug/L	
34418	Methyl chloride					ug/L	
73591	3-Methylcholanthrene					ug/L	
81595	Methyl ethyl ketone					ug/L	
77424	Methyl iodide					ug/L	
81597	Methyl methacrylate					ug/L	
73595	Methyl methanesulfonate					ug/L	
77416	2-Methylnaphthalene					ug/L	
39600	Methyl Parathion					ug/L	
77596	Methylene Bromide					ug/L	
34423	Methylene Chloride					ug/L	
81596	Methyl isobutyl ketone					ug/L	
34696	Naphthalene					ug/l	
73599	1,4-Naphthoquinone or 1,4-Naphthalenedione					ug/L	
73600	1-Naphthylamine					ug/L	
73601	2-Naphthylamine					ug/L	
78142	o-Nitroaniline					ug/L	
78300	m-Nitroaniline					ug/L	
30342	p-Nitroaniline or 4-nitro-benzenamine					ug/L	
34447	Nitrobenzene					ug/l	
34591	2-Nitrophenol					ug/l	
34646	4-Nitrophenol					ug/l	
73609	N-Nitrosodi-n-butylamine					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 8 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
73611	N-Nitrosodiethylamine					ug/L	
34438	N-Nitrosodimethylamine					ug/l	
34428	N-Nitrosodipropylamine					ug/l	
34433	N-Nitrosodiphenylamine					ug/l	
73613	N-Nitrosomethylethalamine					ug/L	
73619	N-Nitrosopiperidine					ug/L	
78206	N-Nitrosopyrrolidine					ug/L	
73622	5-Nitro-o-toluidine					ug/L	
39540	Parathion					ug/L	
77793	Pentachlorobenzene					ug/L	
81316	Pentachloronitrobenzene					ug/L	
39032	Pentachlorophenol					ug/l	
73626	Phenacetin					ug/L	
34461	Phenanthrene					ug/l	
34694	Phenol					ug/l	
73628	p-Phenylenediamine					ug/L	
46313	Phorate					ug/L	
39516	Polychlorinated biphenyls					ug/L	
39080	Pronamide					ug/L	
77007	Propionitrile					ug/L	
34469	Pyrene					ug/l	
77545	Safrole					ug/L	
39760	Silvex; 2,4,5-TP					ug/L	
77128	Styrene					ug/L	
00745	Sulfide					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 9 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39740	2,4,5-Trichlorophenoxyacetic acid					ug/L	
77734	1,2,4,5-Tetrachlorobenzene					ug/L	
77562	1,1,1,2-Tetrachloroethane					ug/l	
34516	1,1,2,2-Tetrachloroethane					ug/L	
34475	Tetrachloroethene					ug/L	
77770	2,3,4,6-Tetrachlorophenol					ug/L	
34010	Toluene					ug/L	
77142	o-Toluidine					ug/L	
39400	Toxaphene					ug/L	
34551	1,2,4-Trichlorobenzene					ug/l	
34506	1,1,1-Trichloroethane					ug/L	
34511	1,1,2-Trichloroethane					ug/L	
39180	Trichloroethene					ug/L	
34488	Trichlorofluoromethane					ug/L	
77687	2,4,5-Trichlorophenol					ug/l	
34621	2,4,6-Trichlorophenol					ug/l	
77443	1,2,3-Trichloropropane					ug/L	
73652	0,0,0-Triethyl phosphorothioat					ug/L	
73653	sym-Trinitrobenzene					ug/L	
77057	Vinyl Acetate					ug/L	
39175	Vinyl Chloride					ug/L	
34020	Xylenes					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 1 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
00010	Temperature (field)					°C	
00299	Dissolved Oxygen (field by probe)					mg/L	
00406	pH (field)					STD	
00094	Spec. Conductance (field)					umhos/cm	
82078	Turbidity (field)					NTU's	
00612	Un-ionized Ammonia as N					mg/L	
00900	Total Hardness as $CaCO_3$					mg/L	
00680	Total Organic Carbon					mg/L	
70300	Total Dissolved Solids					mg/L	
00530	Total Suspended Solids					mg/L	
00310	BOD (5 Day) @ 20 °C					mg/L	
00340	Chemical Oxygen Demand					mg/L	
00600	Total Nitrogen as N					mg/L	
00620	Nitrate as N					mg/L	
00650	Total Phosphates as PO_4					mg/L	
32211	Chlorophyll A					ug/L	
	METALS						
01097	Antimony					ug/L	
01002	Arsenic					ug/L	
01007	Barium					ug/L	
01012	Beryllium					ug/L	
01027	Cadmium					ug/L	
01034	Chromium					ug/L	
01037	Cobalt					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 2 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
01042	Copper					ug/L	
01045	Iron					ug/L	
01051	Lead					ug/L	
71900	Mercury					ug/l	
01067	Nickel					ug/L	
01147	Selenium					ug/L	
01077	Silver					ug/L	
01059	Thallium					ug/L	
01087	Vanadium					ug/L	
01092	Zinc					ug/L	
	ORGANIC CONSTITUENTS						
81552	Acetone					ug/L	
34215	Acrylonitrile					ug/L	
34030	Benzene					ug/L	
73085	Bromochloromethane					ug/L	
32101	Bromodichloromethane					ug/L	
34413	Bromomethane					ug/L	
32104	Bromoform					ug/L	
77041	Carbon Disulfide					ug/L	
32102	Carbon Tetrachloride					ug/L	
34301	Chlorobenzene					ug/L	
34311	Chloroethane					ug/L	
32106	Chloroform					ug/L	
34418	Chloromethane					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 3 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
32105	Dibromochloromethane					ug/L	
049146	1,2-Dibromo-3-chloropropane					ug/L	
46369	1,2-Dibromoethane					ug/L	
46361	Dibromomethane					ug/L	
34536	1,2-Dichlorobenzene					ug/L	
34571	1,4-Dichlorobenzene					ug/L	
77268	trans-1,4-Dichloro-2-butene					ug/L	
34496	1,1-Dichloroethane					ug/L	
34531	1,2-Dichloroethane					ug/L	
34501	1,1-Dichloroethene					ug/L	
77093	cis-1,2-Dichloroethene					ug/L	
34546	trans-1,2-Dichloroethene					ug/L	
34541	1,2-Dichloropropane					ug/L	
34704	cis-1,3-Dichloropropene					ug/L	
34699	trans-1,3-Dichloropropene					ug/L	
34371	Ethylbenzene					ug/L	
77103	Methyl butyl ketone					ug/L	
81595	Methyl ethyl ketone					ug/L	
77424	Methyl iodide					ug/L	
34423	Methylene Chloride					ug/L	
81596	Methyl isobutyl ketone					ug/L	
77128	Styrene					ug/L	
77562	1,1,1,2-Tetrachloroethane					ug/l	
34516	1,1,2,2-Tetrachloroethane					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 4 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34475	Tetrachloroethene					ug/L	
34010	Toluene					ug/L	
34506	1,1,1-Trichloroethane					ug/L	
34511	1,1,2-Trichloroethane					ug/L	
39180	Trichloroethene					ug/L	
34488	Trichlorofluoromethane					ug/L	
77443	1,2,3-Trichloropropane					ug/L	
77057	Vinyl Acetate					ug/L	
39175	Vinyl Chloride					ug/L	
34020	Xylenes					ug/L	
031616	Fecal coliform					#/100	

Florida Department of Environmental Protection

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

MONITORING WELL COMPLETION REPORT

DATE _____

FACILITY NAME: Oak Hammock Disposal, Class I Landfill _____

DER PERMIT NO.: _____ WACS FACILITY ID: 89455 _____

WACS TESTSITE ID.: _____ TESTSITE SITE NAME: _____

WELL TYPE: BACKGROUND _____ DETECTION _____ COMPLIANCE _____

LATITUDE AND LONGITUDE: _____

AQUIFER MONITORED: _____

DRILLING METHOD: _____ DATE INSTALLED: _____

INSTALLED BY: _____

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

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

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

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

FILTER PACK TYPE: _____ FILTER PACK GRAIN SIZE: _____

INTERVAL COVERED: _____ TO _____ (BLS)

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

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

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

DESCRIBE WELL DEVELOPMENT: _____

_____

_____

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): _____

DATE AND TIME MEASURED: _____

REMARKS: _____

_____

NAME OF PERSON PREPARING REPORT: _____

(Name, Organization, Phone No.)

NOTE ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.
(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1929 (BLS) = BELOW LAND SURFACE

DEP Form 62-522.900(3) Effective April 14, 1994

Florida Department of Environmental Protection

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

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Oak Hammock Disposal, Class I Landfill

Address _____

City _____ Zip _____ County _____

Telephone Number ( ) _____

(2) WACS Facility ID 89455

(3) DEP Permit Number _____

(4) Authorized Representative's Name _____ Title _____

Address _____

City _____ Zip _____ County _____

Telephone Number ( ) _____

(5) Type of Discharge _____

(6) Method of Discharge _____

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

_____ _____

Date Owner or Authorized Representative's Signature

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Comp QAP # _____

Analytical Lab Comp QAP #/ HRS Certification _____

Lab Name _____

Address _____

Phone Number ( ) _____

WATER SAMPLING LOG

SITE NAME: Oak Hammock Disposal, Class I Landfill	SITE LOCATION:	
WACS TESTSITE SITE NAME:	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (in):	TOTAL WELL DEPTH (ft):	DEPTH TO WATER (ft):	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (--) X =

PURGE METHOD:	PURGE INITIATED AT:	PURGING ENDED AT:

TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	TEMP. (°C)	COND. (umhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY NTUs	APPEARANCE	COLOR	ODOR

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT	SAMPLING ENDED AT:
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

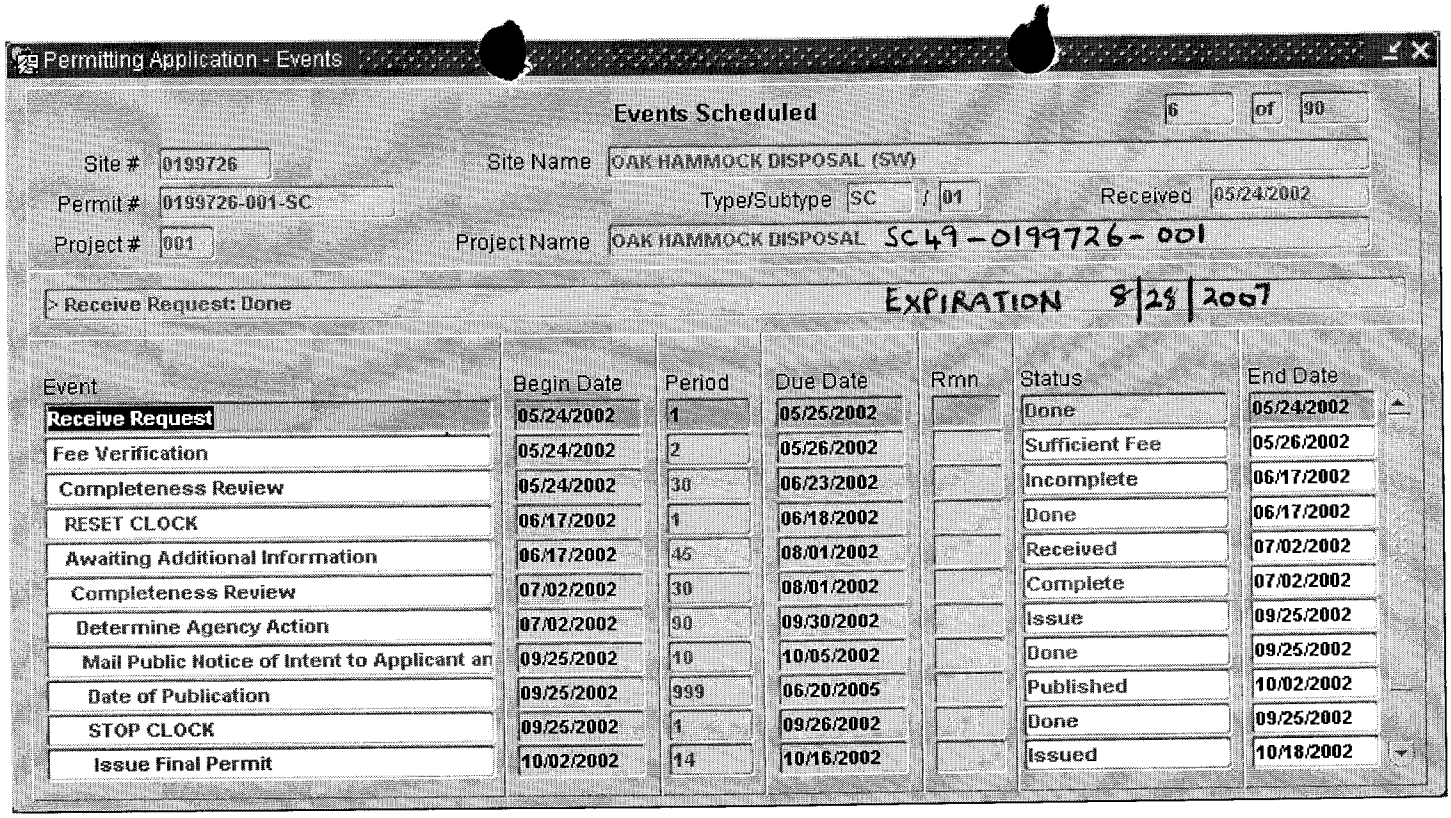
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

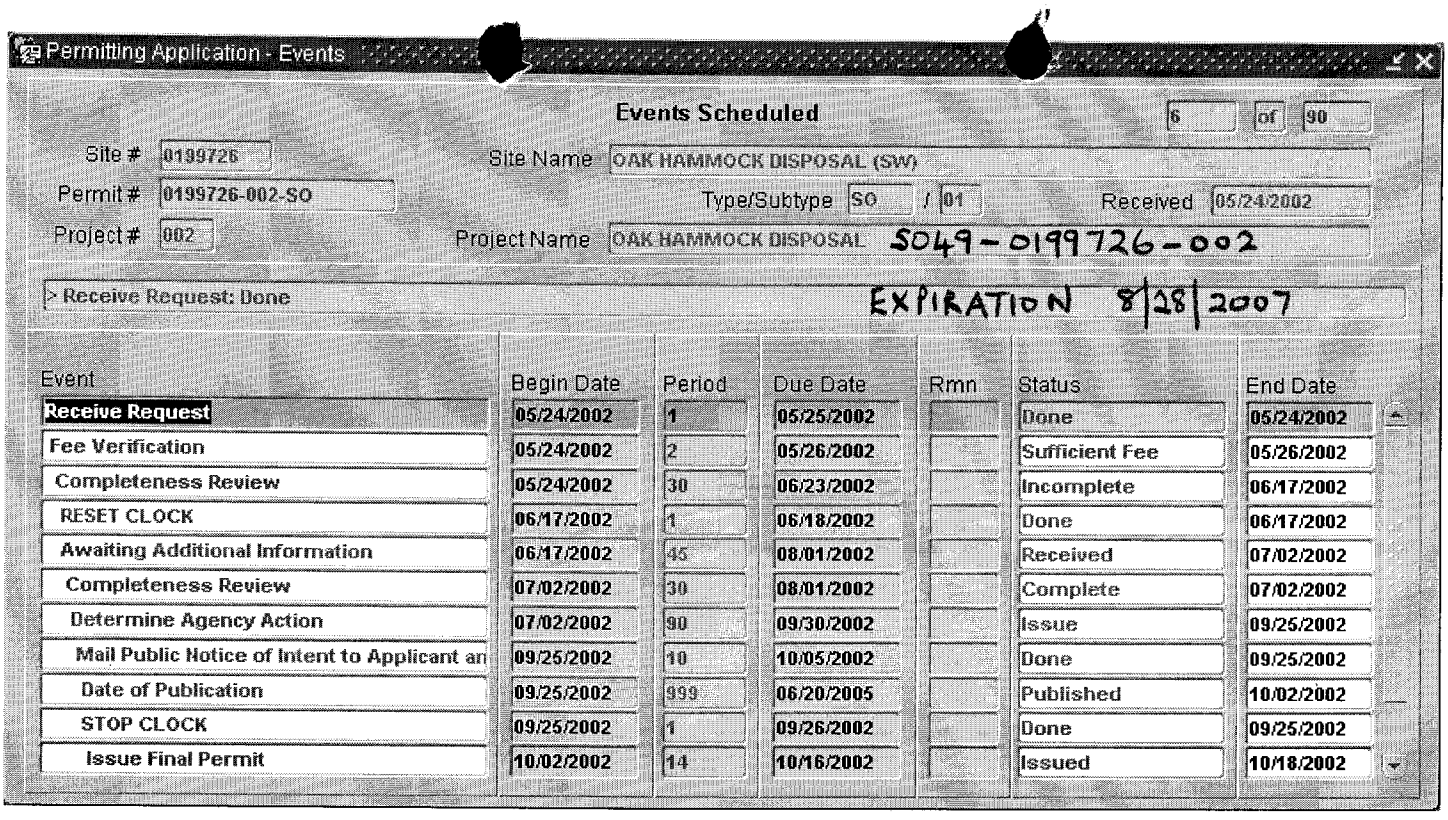
REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O= OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 4' = 0.65 gal/ft; 6" = 1.47 gal/ft; 12" = 5.88 gal/ft

NOTE: The above do not constitute all of the information required by Chapter 62-160, F.A.C.


Permitting Application - Events
Events Scheduled
6 of 90
Site # 0199726
Site Name OAK HAMMOCK DISPOSAL (SW)
Permit # 0199726-001-SC
Type/Subtype SC / 01
Received 05/24/2002
Project # 001
Project Name OAK HAMMOCK DISPOSAL SC49-0199726-001
Receive Request: Done
EXPIRATION 8/28/2007
Event
Begin Date
Period
Due Date
Rmn
Status
End Date
Receive Request 05/24/2002 1 05/25/2002 Done 05/24/2002
Fee Verification 05/24/2002 2 05/26/2002 Sufficient Fee 05/26/2002
Completeness Review 05/24/2002 30 06/23/2002 Incomplete 06/17/2002
RESET CLOCK 06/17/2002 1 06/18/2002 Done 06/17/2002
Awaiting Additional Information 06/17/2002 46 08/01/2002 Received 07/02/2002
Completeness Review 07/02/2002 30 08/01/2002 Complete 07/02/2002
Determine Agency Action 07/02/2002 90 09/30/2002 Issue 09/25/2002
Mail Public Notice of Intent to Applicant an 09/25/2002 10 10/05/2002 Done 09/25/2002
Date of Publication 09/25/2002 999 06/20/2005 Published 10/02/2002
STOP CLOCK 09/25/2002 1 09/26/2002 Done 09/25/2002
Issue Final Permit 10/02/2002 14 10/16/2002 Issued 10/18/2002


Permitting Application - Events
Events Scheduled
6 of 90
Site # 0199726
Site Name OAK HAMMOCK DISPOSAL (SW)
Permit # 0199726-002-SO
Type/Subtype SO / 01
Received 05/24/2002
Project # 002
Project Name OAK HAMMOCK DISPOSAL
S049-0199726-002
> Receive Request: Done
EXPIRATION 8/28/2007
Event
Begin Date
Period
Due Date
Rmn
Status
End Date
Receive Request 05/24/2002 1 05/25/2002 Done 05/24/2002
Fee Verification 05/24/2002 2 05/26/2002 Sufficient Fee 05/26/2002
Completeness Review 05/24/2002 30 06/23/2002 Incomplete 06/17/2002
RESET CLOCK 06/17/2002 1 06/18/2002 Done 06/17/2002
Awaiting Additional Information 06/17/2002 45 08/01/2002 Received 07/02/2002
Completeness Review 07/02/2002 30 08/01/2002 Complete 07/02/2002
Determine Agency Action 07/02/2002 90 09/30/2002 Issue 09/25/2002
Mail Public Notice of Intent to Applicant an 09/25/2002 10 10/05/2002 Done 09/25/2002
Date of Publication 09/25/2002 999 06/20/2005 Published 10/02/2002
STOP CLOCK 09/25/2002 1 09/26/2002 Done 09/25/2002
Issue Final Permit 10/02/2002 14 10/16/2002 Issued 10/18/2002

RED ___ YELLOW___ GREEN___ NO PERMIT REQ ___

HISTORY SHEET

SITE/WAFR/AIR#: 49-019926-001 **TYPE:** SC **SUBTYPE:** 01

SITE/WAFR/AIR NAME: Oak Hammock Disposal

PROJECT NAME:

DATE	TIME BEGIN	TIME END	TOTAL TIME	COMMENTS	POSITION TITLE
ENTERED	MAY 2 6 2002		30		OAS

RED ___ YELLOW___ GREEN___ NO PERMIT REQ ___

HISTORY SHEET

SITE/WAFR/AIR#: 49-0199226-002 **TYPE:** 50 **SUBTYPE:** 01

SITE/WAFR/AIR NAME: Oak Hammock Disposal

PROJECT NAME:

DATE	TIME BEGIN	TIME END	TOTAL TIME	COMMENTS	POSITION TITLE
ENTERED	MAY 2 8 2002		30		OAS

Osceola County SW

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

Two cc's to Air 11/22

22 November 2002

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

RECEIVED
NOV 22 2002
Central Dist. - DEP

Subject: Prevention of Significant Deterioration (PSD) Requirements
Permit Nos. SC49-0199726-001 and SO49-0199726-002
Oak Hammock Disposal Facility
Osceola County, Florida

Dear Mr. Bradner:

This letter addresses the Specific Condition No. 55 "*Prevention of Significant Deterioration (PSD) Requirements*", in the above referenced construction and operation permit issued for the Oak Hammock Disposal (OHD) facility in Osceola County, Florida. The permit was issued to Omni Waste of Osceola County, LLC (Omni) by the Florida Department of Environmental Protection (FDEP) on 18 October 2002 and is valid for a period of 5 years. This letter establishes the inapplicability of the PSD requirements of Chapter 62-212, Florida Administrative Code (F.A.C.), to the Phase 1 development of the OHD facility. Phase 1 includes the first 5 years of the OHD facility construction and operation, for which the permit was issued by FDEP.

BACKGROUND

The permit application to construct and operate the OHD Class I municipal solid waste (MSW) landfill was submitted to FDEP in May 2002. The application supports a 5-year construction and operation period and a conceptual plan for development of the OHD facility over an estimated 30-year period. The 5-year construction and operation permit includes four cells in the Phase 1 development of the OHD facility with a total footprint of approximately 53 acres. The complete build-out of the OHD facility includes 21 landfill cells with a total footprint of approximately 264 acres. The proposed 264-acre landfill is expected to provide airspace for a period of approximately 30 years based on an average disposal rate of 474,000 tons of MSW per year. Phase 1 development of the OHD facility is expected to provide airspace for a period greater than 5 years based on the disposal rate of 474,000 tons of MSW per year.

As discussed in Section 5 of the permit application, entitled "*Landfill Gas Management*", the gas extraction system (GES) will be installed in conjunction with the construction of the final cover system. The installation of the initial final cover system and the GES is expected to begin in the 5th year of the landfill operation as indicated on Sheet 27 of 50 of the permit drawings. The GES will consist of vertical gas extraction wells, gas transmission pipes, and, ultimately, four flare stations. The installation of 3-ft diameter vertical gas extraction wells at a spacing of approximately 300 feet will begin when the total quantity of disposed waste reaches approximately 2.75 million tons, in compliance with 40 CFR Part 60, Subpart WWW.

As mentioned in the Section 5 of the permit application, in accordance with Rule 62-204.800(7)(b)72, F.A.C., an Application for Air Permit – Title V Source (DEP form no. 62-210.900(1)) will be submitted within 180 days of issuance of the solid waste permit to meet the operation permit requirements of Chapter 62-213, F.A.C. This letter only addresses issues related to the PSD requirements of Chapter 62-212, F.A.C.

APPLICABLE REGULATIONS

The regulations related to the PSD requirements of Chapter 62-212, F.A.C., are listed below. The applicability to the PSD requirements of each of the following regulations is also briefly discussed below.

Chapter 62-204, Air Pollution Control – General Provisions
Chapter 62-210, Stationary Sources – General Requirements
Chapter 62-212, Stationary Sources – Preconstruction Review
Chapter 62-296, Stationary Sources – Emission Standards
40 CFR 60, Subpart WWW, Standards of Performance for MSW Landfills

Chapter 62-204, F.A.C., adopts and incorporates the federal air pollution control regulations by reference. Chapter 62-204, F.A.C., adopts and incorporates 40 CFR 60 Subpart WWW in Rule 62-204.800(7)(b)72, F.A.C.

Chapter 62-210, F.A.C., provides the criteria for determining the need to obtain an air construction or operation permit. Chapter 62-210, F.A.C., also includes definitions of words and phrases used in this chapter and in Chapters 62-212 and 62-296, F.A.C.

Chapter 62-212, F.A.C., establishes the preconstruction review requirements for proposed new emissions units or facilities and their modifications. The PSD

preconstruction review requirements for emissions units or facilities are included in this chapter.

Chapter 62-296, F.A.C., establishes the emission limiting standards and compliance requirements for stationary sources of air pollution. With respect to MSW landfills, Chapter 62-296, F.A.C., states that standards for any "new" facility or emissions unit shall be the federal standards of performance for new stationary sources adopted by reference in Rule 62-204.800(7), F.A.C.

The 40 CFR 60, Subpart WWW establishes the standards for air emissions (with respect to operation, test methods and procedure, compliance, monitoring, reporting, and record keeping) for MSW landfills constructed after 30 May 1991. The 40 CFR 60.754(c) in Subpart WWW recommends using USEPA AP-42 for estimating MSW landfill emissions for PSD purposes.

APPROACH

The mass emission rates of the applicable regulated air pollutants and/or landfill gas (LFG) constituents for the expected 30-year operating life of the OHD facility are presented and discussed in the following sections. Based on the computed maximum mass emission rates, it will be shown that the OHD facility is not a *major facility* during the first 5 years of operation in accordance with Rule 62-210.200(157), F.A.C. Therefore, the OHD facility is a *minor facility* (in accordance with Rule 62-210.200(165), F.A.C.) for the duration of the construction and operation permit issued by FDEP. In accordance with Rule 62-212.400(2)(d)1, F.A.C., new minor facilities are not subject to the PSD preconstruction review requirements. Therefore, for the Phase 1 development of the OHD facility, Omni is not required to obtain an air construction permit subject to the PSD requirements of Chapter 62-212, F.A.C.

As a minor facility, OHD facility is not subject to any air permitting requirements. However, it is recognized that as a MSW landfill subject to 40 CFR 60, Subpart WWW, and having a design capacity greater than 2.75 million tons, the OHD facility is subject to the operation permit requirements of Chapter 62-213, F.A.C.

REGULATED AIR POLLUTANTS AND LANDFILL GAS CONSTITUENTS

The regulated air pollutants are listed in Chapter 62-212, F.A.C., Table 212.400-2 (Specific Authority 403.061 Florida Statutes (FS)). The LFG constituents for MSW

landfills are listed in USEPA AP-42 Section 2.4 (1998), entitled "*Emission Factor Documentation for Municipal Solid Waste Landfills*". It is noted that 40 CFR 60.754(c) in Subpart WWW recommends using USEPA AP-42 for estimating MSW landfill emissions for PSD purposes.

The LFG constituents (per USEPA AP-42) that are regulated air pollutants (per Table 212.400-2) include carbon monoxide (CO), total reduced sulfur compounds (measured as sulfur, S, or sulfur dioxide, SO_2), and non-methane organic compounds (NMOC). The mass emission rates of these three regulated air pollutants were computed using the methodology outlined in USEPA AP-42 and are presented in Figures 1 through 3, respectively, included with this letter. As the landfill develops, the proposed GES will use up to four flares as control devices. As a result of the installation of the flare(s), nitrogen oxide (NO_2) and particulate matter (PM), which are also regulated air pollutants, will be emitted at the OHD facility. The mass emission rates of these two regulated air pollutants were also computed using the methodology outlined in USEPA AP-42 and are presented in Figures 4 and 5, respectively. The mass emission rates of the LFG constituents acrylonitrile (a hazardous air pollutant) and total hazardous air pollutants (HAP) are presented in Figures 6 and 7, respectively.

The USEPA AP-42 methodology used in computing the mass emission rates of the LFG constituents is detailed in the calculation package included as Attachment 1 with this letter. Some of the results presented in Figures 1 through 7 were verified with the uncontrolled mass emission rates obtained using USEPA software entitled "*Landfill Gas Emissions Model (Version 2.01)*". The uncontrolled mass emission rates computed using this software are included in Attachment 2.

Figures 1 through 7 present uncontrolled and controlled mass emission rates of the applicable regulated air pollutants and/or LFG constituents for the anticipated 30-year operating life of the OHD facility. The *uncontrolled emissions* represent mass emission rates assuming that no GES is installed throughout the operating life of the OHD facility. The *controlled emissions* are mass emission rates assuming that the proposed GES is installed beginning in the 5th year of the landfill operation. The controlled mass emission rates represent the sum of the potential emissions and the quantifiable fugitive emissions from the OHD facility in accordance with Rule 62-212.400(2)(f), F.A.C.

As discussed in Attachment 1, the controlled emission rates presented in the figures assume that the collection efficiency of the GES is 75 percent, i.e., only 75 percent of the gas generated by the landfill is collected by the GES and the remaining 25 percent

escapes as uncontrolled emissions. It is noted that 75 percent collection efficiency is the recommended average collection efficiency for landfill GES by USEPA AP-42. The controlled emission rates presented in the figures also incorporate control device efficiency (i.e., flare(s) efficiency), ranging from 98.0 to 99.7 percent, as recommended by USEPA AP-42.

As expected, the controlled emission rates of the regulated air pollutants and/or LFG constituents are less than the uncontrolled emission rates except for CO. The controlled emission rates for CO are higher than the uncontrolled emission rates because of the CO generated by the flares (which will be used as control devices in the GES at the OHD facility). It is noted that NO_2 and PM are not LFG constituents and are generated only by the flare. Therefore, only controlled emission rates are presented for NO_2 and PM, which will be generated after installation of the GES beginning in the 5^{th} year of the landfill operation.

The maximum uncontrolled and controlled emission rates for the first 5 years and for the 30-year operating life of the OHD facility are presented in Table 1. Five years correspond to the duration of the construction and operation permit issued by FDEP for the Phase 1 development of the OHD facility and 30 years correspond to the expected operating life of the OHD facility.

APPLICABILITY OF PSD REQUIREMENTS

In accordance with Rule 62-210.200(157), F.A.C., a "*Major Facility*", is any facility that emits or has potential to emit:

(a) 5 tons per year of lead or lead compounds, measured as elemental lead;
(b) 30 tons per year or more of acrylonitrile; or
(c) 100 tons per year or more of any other air pollutant subject to regulation under Chapter 403, FS.

In accordance with USEPA AP-42, lead or lead compounds are not a constituent of the LFG or the emissions generated by a flare, which will be used as the control device in the GES at the OHD facility. As noted in Table 1 and Figure 6, the maximum mass emission rate of acrylonitrile is less than 1 ton per year. The mass emission rates of regulated air pollutants are discussed below.

5 Years – Phase 1 Development

As noted in Table 1, during the first 5 years of the OHD facility operation, the maximum uncontrolled emission rates of the applicable regulated air pollutants (listed in Chapter 62-212, F.A.C., Table 212.400-2, Specific Authority 403.061 FS) are less than 3 tons per year except for the emission rate of NMOC of about 33 tons per year. The maximum controlled emission rates of the applicable regulated air pollutants are less than 9 tons per year except for the emission rate of CO of about 78 tons per year. In essence, the maximum uncontrolled or controlled emission rate of any applicable regulated air pollutant is less than 100 tons per year. Therefore, the OHD facility is not a *major facility* during the first 5 years of operation. Thus, for the duration of the construction and operation permit issued by FDEP for the Phase 1 development, the OHD facility is a *minor facility* in accordance with Rule 62-210.200(165), F.A.C.

In accordance with Rule 62-212.400(2)(d)1, F.A.C., new minor facilities are not subject to the PSD preconstruction review requirements. Therefore, for the Phase 1 development of the OHD facility, Omni is not required to obtain an air construction permit subject to the PSD requirements of Chapter 62-212, F.A.C.

30 Years – Operating Life of the OHD Facility

As noted in Table 1, for the 30-year operating life of the OHD facility, the maximum controlled emission rates of the applicable regulated air pollutants are less than 33 tons per year except for the emission rate of CO of about 300 tons per year. It is noted that the maximum mass emission rate of CO from the landfill without the GES (i.e., uncontrolled emission) is less than 10 tons per year, i.e., practically all of the CO is generated by the flares in the controlled situation. In essence, except for the emission rate of CO from the flares, the OHD facility is a minor facility throughout its 30-year operating life.

The emission rate of CO from the flare was computed using the default emission factors recommended in USEPA AP-42. The GES installation is expected to begin in the 5th year of the landfill operation and will incorporate flare(s) as the control device. Prior to future phased developments of the OHD facility, the emission rate of CO from the flare(s) will be analyzed. Based on the results of the analysis, whether or not an air construction permit (subject to the PSD requirements of Chapter 62-212, F.A.C.) is required for the future developments of the OHD facility will be re-evaluated.

CONCLUSION

Based on the mass emission rates of the applicable regulated air pollutants and LFG constituents during the Phase 1 development of the OHD facility, Omni is not required to obtain an air construction permit as referenced in the Specific Condition No. 55 of the construction and operation permit issued by FDEP on 18 October 2002.

It is requested that FDEP issue a letter verifying agreement with the inapplicability of the PSD requirements of Chapter 62-212, F.A.C., to the Phase 1 development of the OHD facility. If you have any questions or need additional information, please do not hesitate to contact the undersigned.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

Copy to: Len Koslov, FDEP, Central District
Al Linero, FDEP, Tallahassee
Tim Salopek, Omni Waste
Bill Kozuh, Omni Waste
David Dee, Landers & Parsons

Table 1

MASS EMISSION RATES FOR REGULATED AIR POLLUTANTS AND LANDFILL GAS CONSTITUENTS

Pollutant/Constituent	Regulated Air Pollutant [1]	Landfill Gas Constituent [2]	Maximum Mass Emission Rates (tons/yr)			
			5 Years - Phase 1 Development		30 Years - Operating Life	
			Uncontrolled [3]	Controlled [4]	Uncontrolled [3]	Controlled [4]
Carbon Monoxide (CO)	Yes	Yes	2.5	77.9	9.7	300.4
Total Reduced Sulfur (as S or SO_2) [5]	Yes	Yes	1.0	1.9	3.7	7.4
Non-Methane Organic Compounds (NMOC)	Yes	Yes	32.8	8.4	126.4	32.4
Nitrogen Dioxide (NO_2)	Yes	No	NA [6]	4.2	NA [6]	16.1
Particulate Matter (PM)	Yes	No	NA [6]	1.7	NA [6]	6.7
Acrylonitrile (a HAP)	No	Yes	0.21	0.05	0.83	0.21
Total Hazardous Air Pollutants (HAP)	No	Yes	4.3	1.1	16.6	4.3

Notes:

[1] Per Chapter 62-212, F.A.C., Table 212.400-2 (Specific Authority 403.061 FS).

[2] Per USEPA AP-42 Section 2.4 (1998).

[3] Assuming no gas extraction system (GES) is installed.

[4] Assuming the proposed GES is installed beginning in the 5th year of operation. See text for other assumptions.

[5] Uncontrolled and controlled emissions are reported as S and SO_2, respectively.

[6] Not Applicable. NO_2 and PM are not landfill gas constituents and are generated only by the flare(s).

Figure 1

MASS EMISSION RATES
CARBON MONOXIDE (CO)

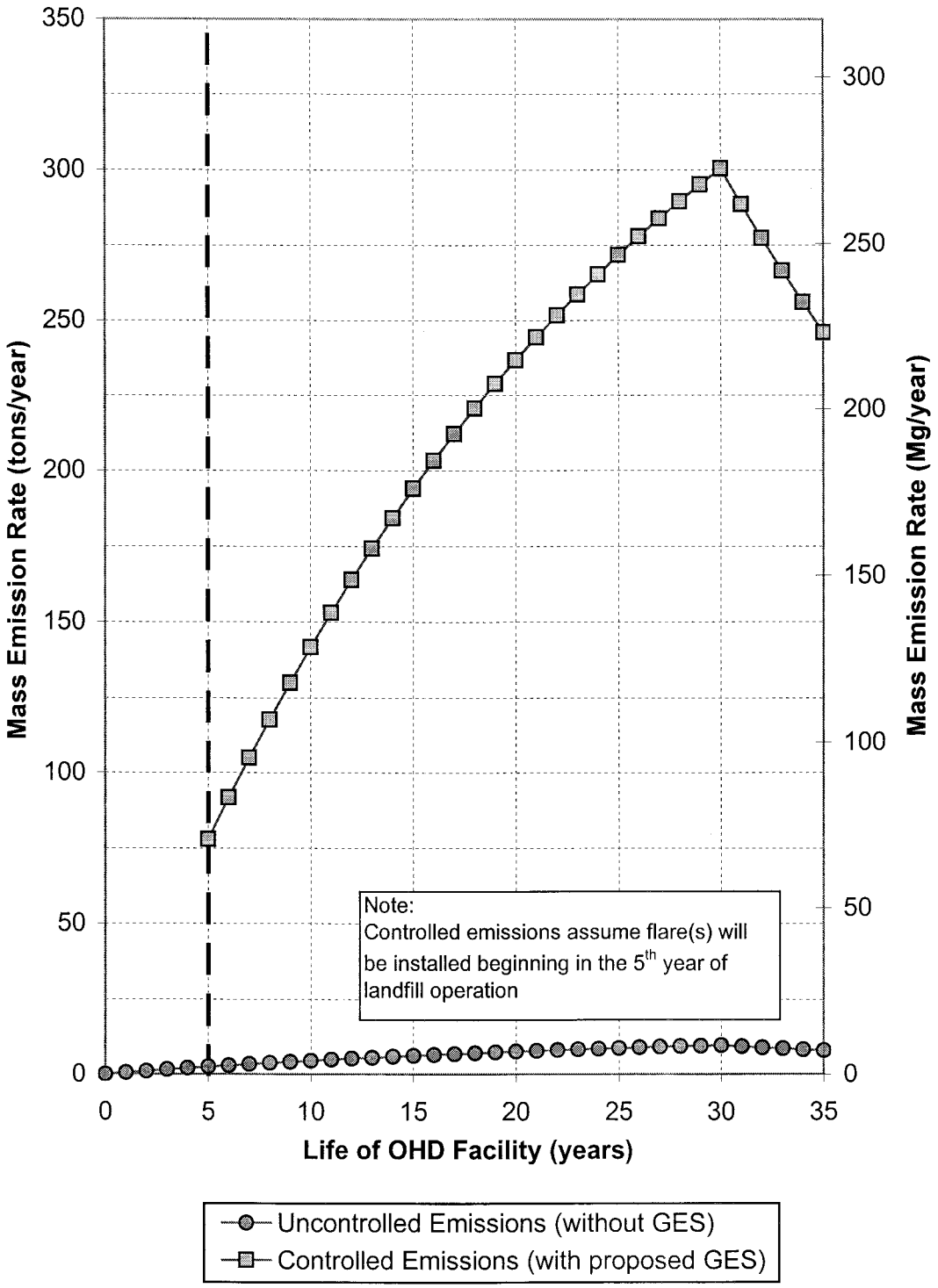


Figure 2

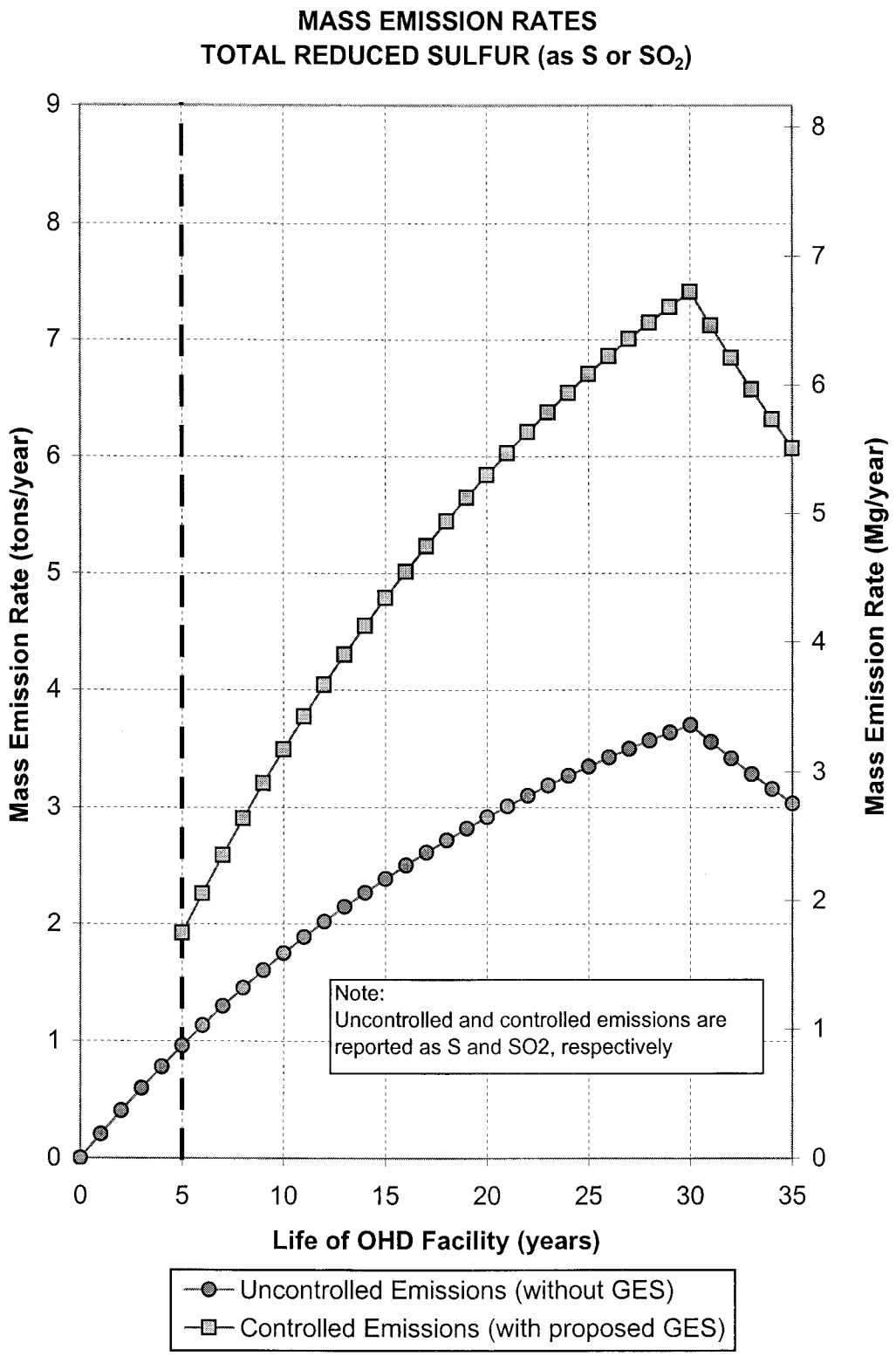

MASS EMISSION RATES
TOTAL REDUCED SULFUR (as S or SO_2)
Mass Emission Rate (tons/year)
Mass Emission Rate (Mg/year)
Life of OHD Facility (years)
0
1
2
3
4
5
6
7
8
9
0
5
10
15
20
25
30
35
Note:
Uncontrolled and controlled emissions are reported as S and SO2, respectively
Uncontrolled Emissions (without GES)
Controlled Emissions (with proposed GES)

Figure 3

MASS EMISSION RATES
NON-METHANE ORGANIC COMPOUNDS (NMOC)

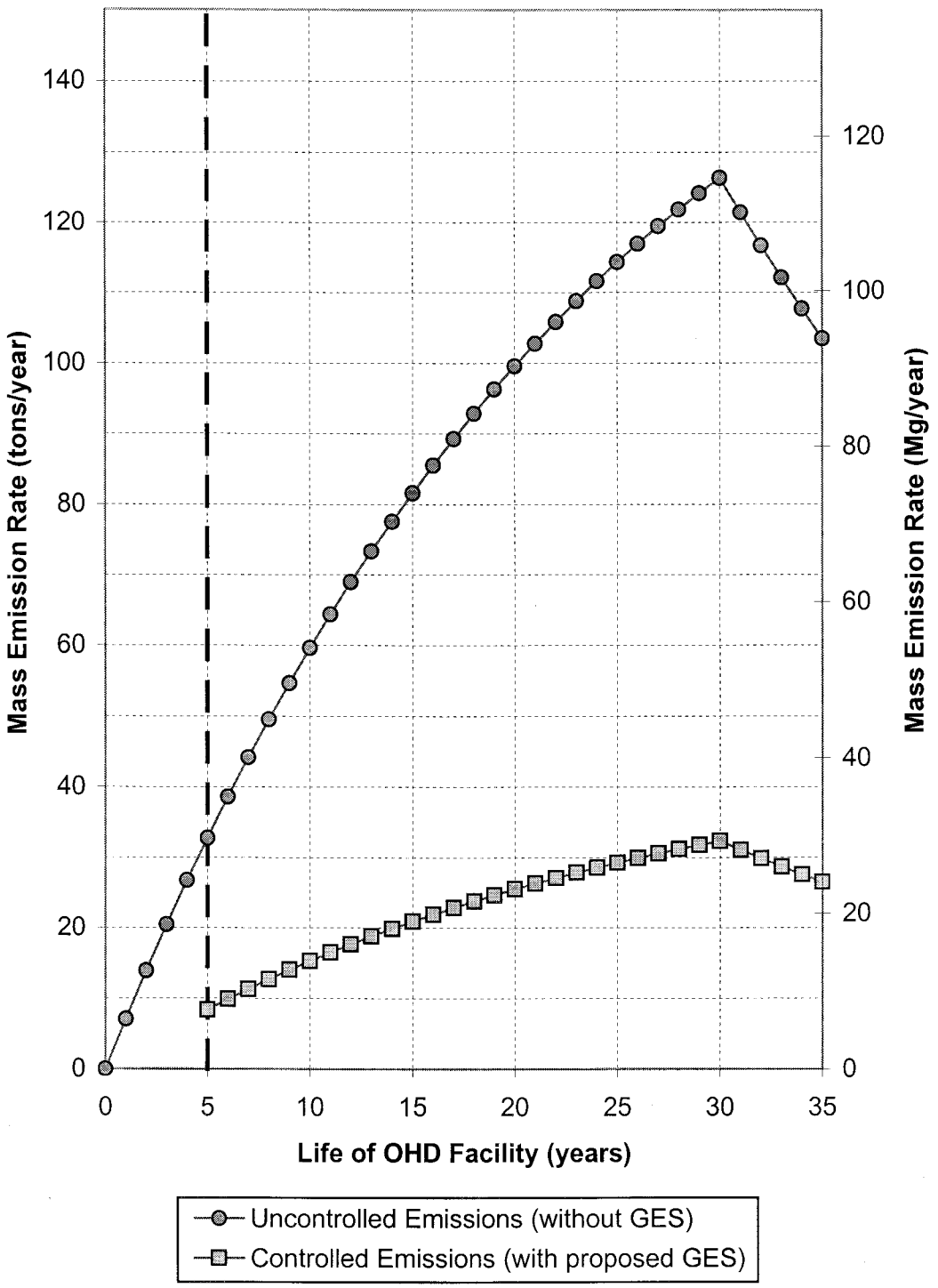


Figure 4

MASS EMISSION RATES
TOTAL NITROGEN DIOXIDE (NO_2)

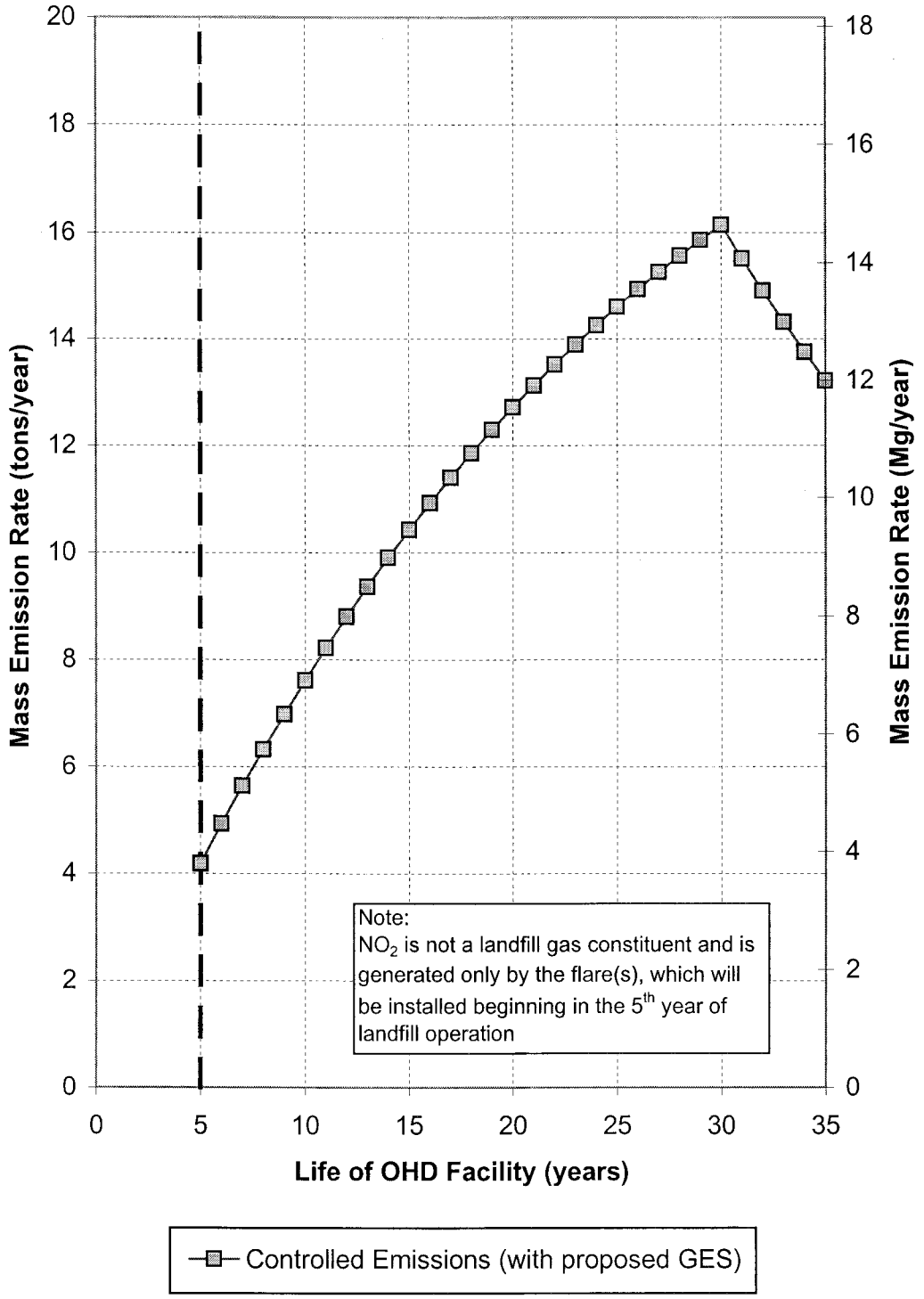


Figure 5

MASS EMISSION RATES
PARTICULATE MATTER (PM)

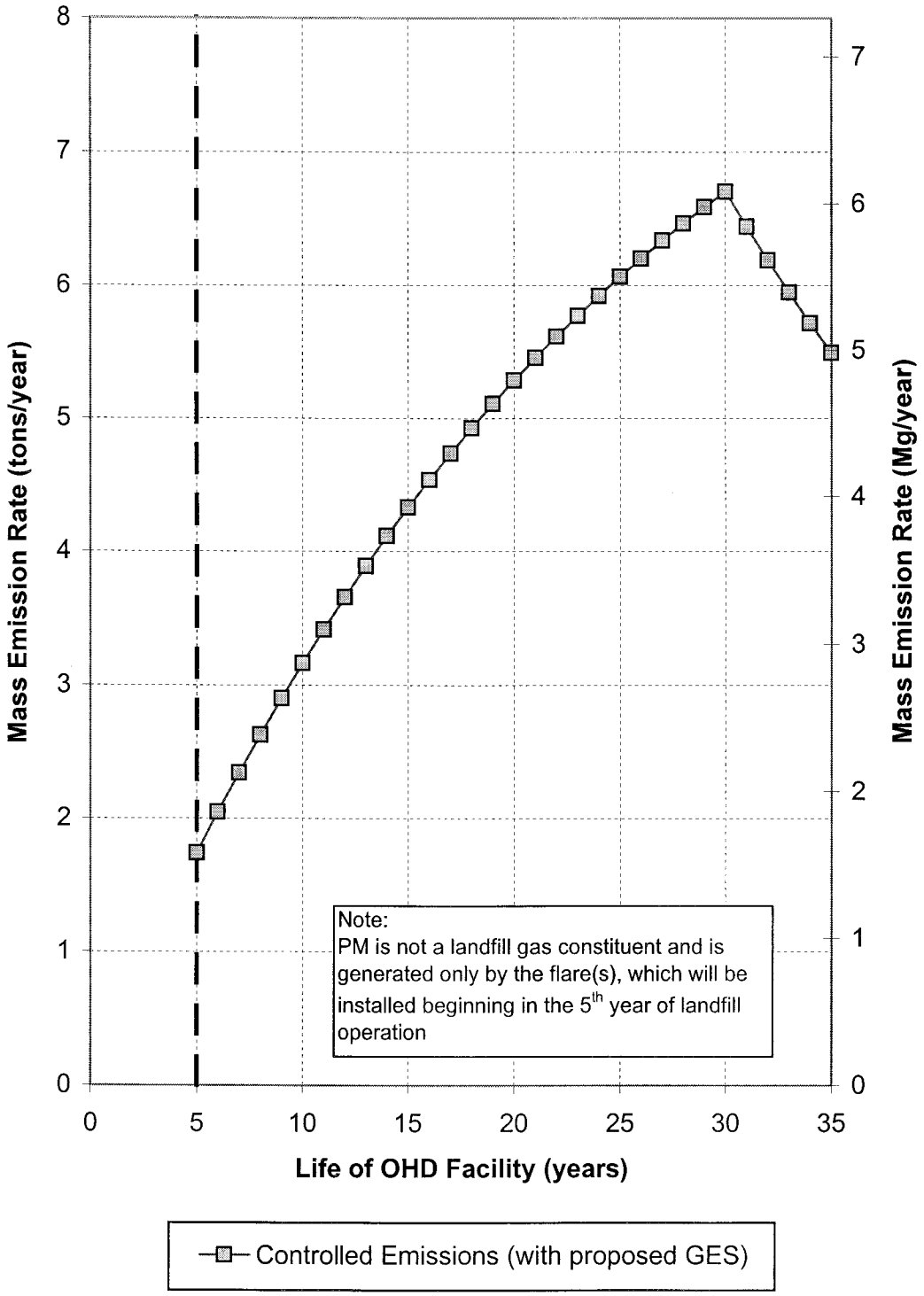


Figure 6

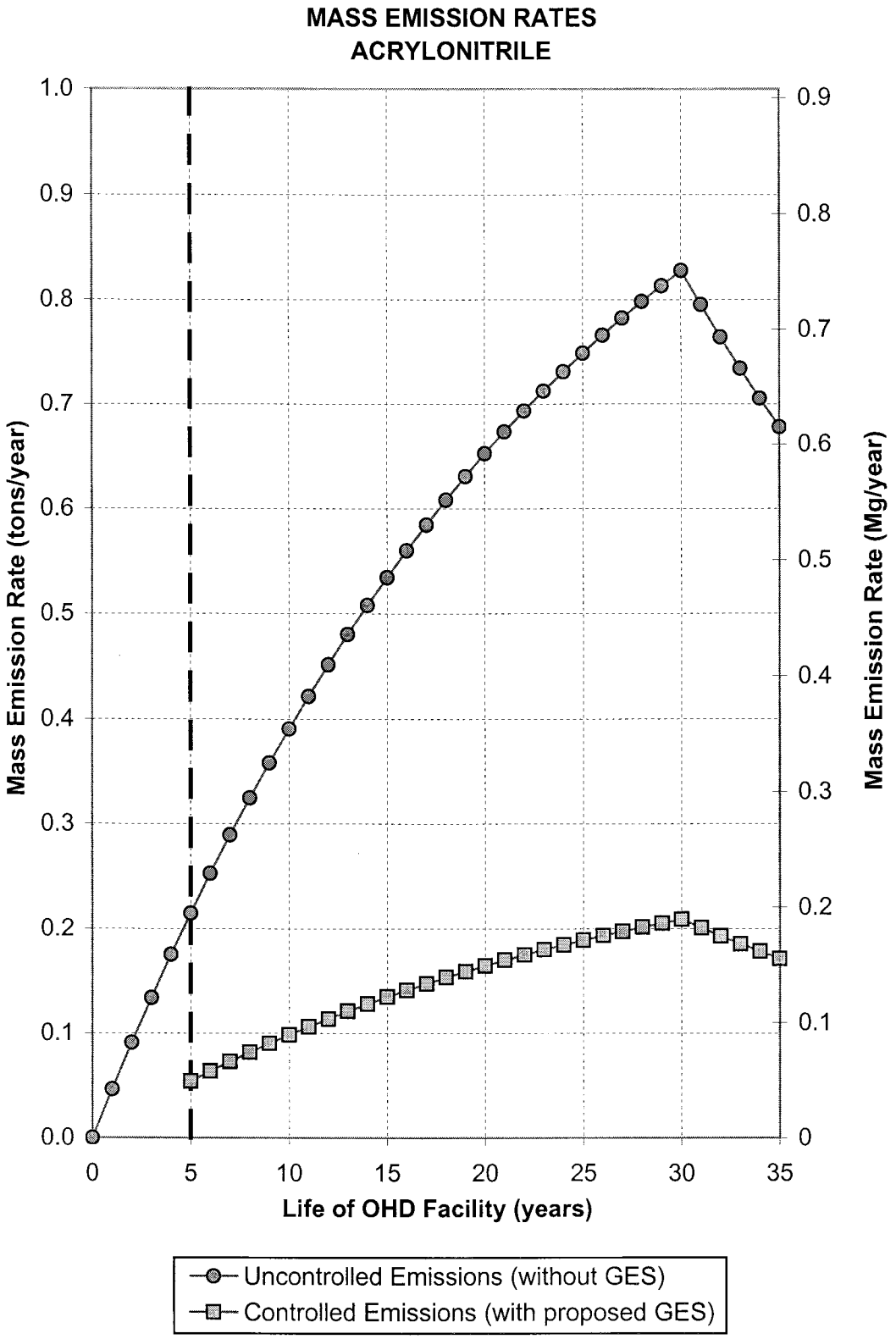
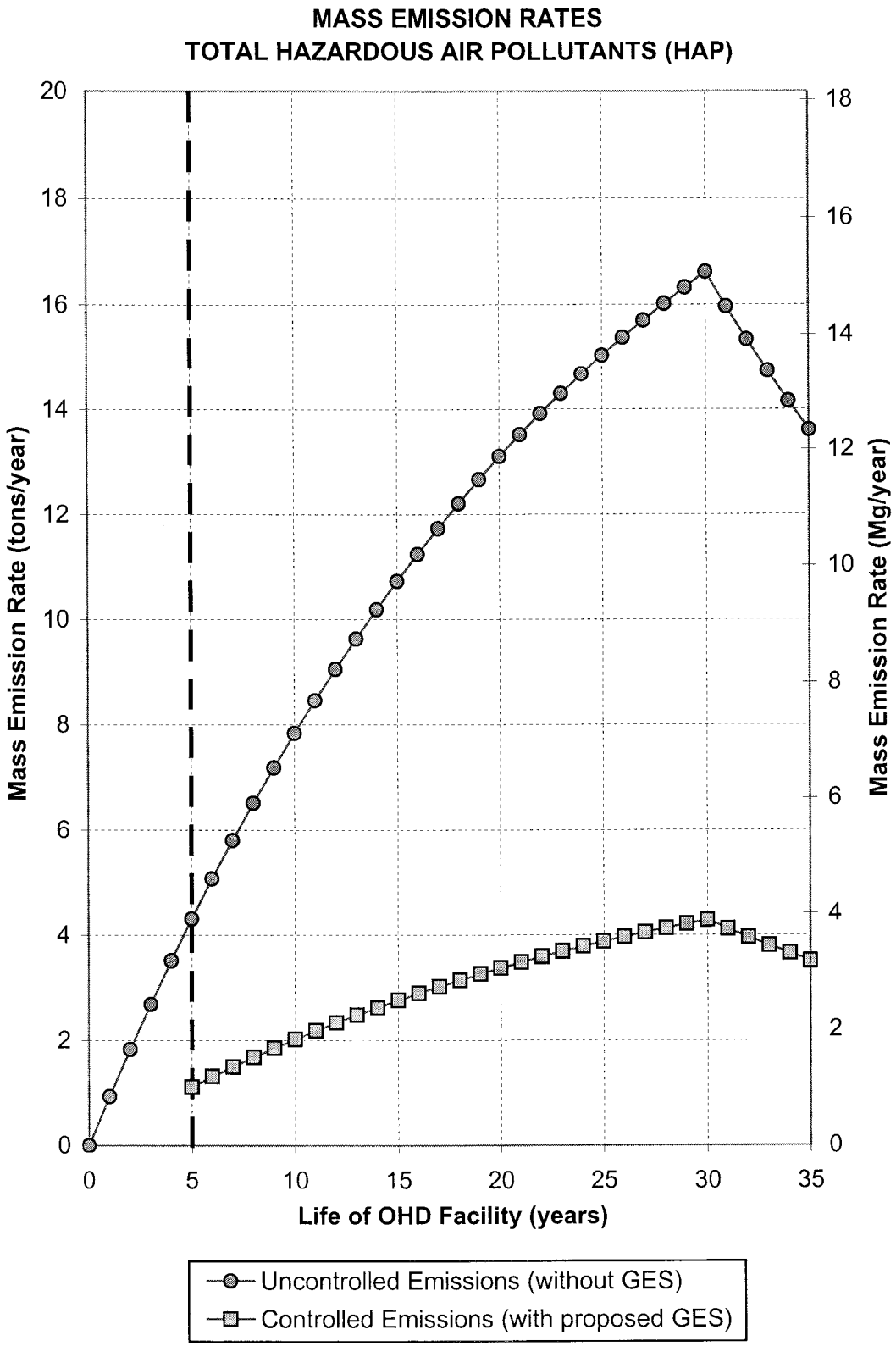

MASS EMISSION RATES
ACRYLONITRILE
Mass Emission Rate (tons/year)
Mass Emission Rate (Mg/year)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5
10
15
20
25
30
35
Life of OHD Facility (years)
Uncontrolled Emissions (without GES)
Controlled Emissions (with proposed GES)

Figure 7


MASS EMISSION RATES
TOTAL HAZARDOUS AIR POLLUTANTS (HAP)
Mass Emission Rate (tons/year)
Mass Emission Rate (Mg/year)
Life of OHD Facility (years)
0
2
4
6
8
10
12
14
16
18
20
0
5
10
15
20
25
30
35
Uncontrolled Emissions (without GES)
Controlled Emissions (with proposed GES)

Attachment 1

LANDFILL GAS CONSTITUENTS EMISSION ESTIMATED USING AP-42 SECTION 2.4

The methane (CH_4) generation rate and the landfill gas (LFG) constituents emission rates were estimated using the procedure outlined in USEPA AP-42 (Fifth Edition, Volume I), entitled "*Compilation of Air Pollutant Emission Factors*". USEPA AP-42 Section 2.4, entitled "*Emission Factor Documentation for Municipal Solid Waste Landfills*", (Supplement E, November 1998), referenced herein simply as AP-42, was used to estimate the emissions of relevant LFG constituents for the Oak Hammock Disposal (OHD) facility.

The LFG constituents, for which uncontrolled and controlled mass emission rates were computed, include carbon monoxide (CO), total reduced sulfur (as sulfur, S, or sulfur dioxide, SO_2), non-methane organic compounds (NMOC), total hazardous air pollutants (HAP), and acrylonitrile (an HAP). Flare(s) will be used as the control device in the proposed gas extraction system (GES) at the OHD facility. Secondary compounds exiting the flare(s) for which controlled mass emission rates were computed include CO, nitrogen dioxide (NO_2), and particulate matter (PM).

Methane Generation Rate

The methane generation rate for the OHD facility was estimated using the following Landfill Air Emissions Estimation model equation developed by EPA:

$$Q_{CH_4} = L_0 \, R \left(e^{-kc} - e^{-kt} \right) \tag{1}$$

where:

Q_{CH_4}	=	CH_4 generation rate at time t, m^3/yr;
L_0	=	CH_4 generation potential, m^3 of CH_4 per megagrams (Mg) of refuse;
R	=	average annual refuse acceptance rate during active life, Mg/yr;
e	=	natural log, unitless;
k	=	CH_4 generation rate constant, yr^{-1};
c	=	time since landfill closure, yrs (c=0 for active landfills); and
t	=	time since initial refuse placement, yrs.

An L_0 value of 100 m^3/Mg was used as recommended in AP-42. A k value of 0.04/year was used corresponding to areas with annual rainfall of 25 inches or more. An average refuse acceptance rate (R) of 474,000 tons/year (approximately 430,000 Mg/yr) was used in the above equation to estimate the methane generation rate. The methane generation rate was computed for each year of the anticipated 30-year life of the OHD

facility and for the first 5 years after closure of the facility. The computed rates are presented in Figure A1-1.

Uncontrolled Emissions

The uncontrolled emission rate of relevant LFG constituents (e.g. NMOC) were estimated using the following equation:

$$Q_P = 1.82\, Q_{CH_4} * \frac{C_P}{(1\times10^6)} \qquad (2)$$

where:

Q_P = uncontrolled emission rate of pollutant P (e.g. NMOC), m^3/yr;
Q_{CH_4} = CH_4 generation rate, m^3/yr (from Equation 1);
C_P = concentration of pollutant P in LFG, ppmv (ppm by volume); and
1.82 = multiplication factor assuming 55 percent of LFG (by volume) is CH_4.

The concentrations (C_P) of relevant LFG constituents used in computing the uncontrolled emission rates are presented in Table A1-1. It is noted that a concentration of 595 ppmv as hexane was used for NMOC, as recommended by AP-42 for "*no or unknown co-disposal*", since the landfill will primarily contain municipal solid waste.

The uncontrolled mass emissions rate of relevant LFG constituents (e.g. NMOC) were estimated using the following equation:

$$UM_P = Q_P * \left[\frac{MW_P * 1\ atm}{(8.205\times10^{-5}\ m^3 * atm/gmol * {}^\circ K)\,(1000\ g/kg)\,(273+T)} \right] \qquad (3)$$

where:

UM_P = uncontrolled mass emission rate of pollutant P (e.g. NMOC), kg/yr;
MW_P = molecular weight of pollutant P, g/gmol;
Q_P = emission rate of pollutant P, m^3/yr (from Equation 2); and
T = temperature of landfill gas, °C.

The molecular weights (MW_P) of relevant LFG constituents used in computing the uncontrolled mass emission rates are also presented in Table A1-1. It was assumed that the operating pressure of the system is 1 atmosphere and the temperature of the LFG is 25°C, as recommended by AP-42.

Controlled Emissions

The controlled mass emission rate of relevant LFG constituents (except for total reduced sulfur) were estimated using the following equation:

$$CM_P = \left[UM_P * \left(1 - \frac{\eta_{col}}{100}\right)\right] + \left[UM_P * \frac{\eta_{col}}{100} * \left(1 - \frac{\eta_{cnt}}{100}\right)\right] \quad (4)$$

where:

CM_P = controlled mass emission rate of pollutant P, kg/yr;
UM_P = uncontrolled mass emissions of pollutant P, kg/yr (from Equation 3);
$?_{col}$ = collection efficiency of GES, percent; and
$?_{cnt}$ = control efficiency of the GES control device (i.e., flare), percent.

A collection efficiency of 75 percent was assumed for the GES (i.e., only 75 percent of the gas generated by the landfill is collected by the GES and the remaining 25 percent escapes as uncontrolled emissions). It is noted that 75 percent collection efficiency is the recommended average collection efficiency for landfill GES in AP-42. Flare(s) will be used as the control device in the proposed GES. Therefore, control efficiencies for flare(s), ranging from 98.0 to 99.7 percent, recommended in AP-42 were used in Equation 4.

The following equation was used to estimate the controlled mass emission rate of total reduced sulfur (as SO_2):

$$CM_{SO_2} = UM_S * \frac{\eta_{col}}{100} * 2.0 \quad (5)$$

where:

CM_{SO_2} = Controlled mass emission rate of SO_2, kg/yr;
UM_S = Uncontrolled mass emission rate of total reduced sulfur (as S), kg/yr (from Equation 3);
$?_{col}$ = Collection efficiency of the GES, percent (assumed as 75 percent); and
2.0 = Ratio of the molecular weight of SO_2 to S.

Controlled mass emissions of secondary compounds exiting the flare(s) (i.e., the control device in the proposed GES) were estimated using the emission factors recommended in AP-42. It is noted that the controlled mass emissions of secondary compounds exiting the flare(s) were computed based on the amount of methane reaching the flare (i.e., 75% of the total methane generated by the landfill), corresponding to the assumed collection efficiency of the GES. Since the proposed GES installation will begin in the 5th year of landfill operation, the controlled mass emissions of secondary

compounds exiting the flare(s) were estimated starting in the 5th year of the OHD facility life.

The controlled emission rates of CO presented include the CO emissions from the flare and the CO that will be released directly from the landfill due to the collection and control device inefficiencies. It is noted that the controlled emission rates of total reduced sulfur are presented as SO_2. However, it is recognized that the total reduced sulfur that will be released directly from the landfill due to the collection and control device inefficiencies, will be released as S. The mass emission rates of total HAPs were estimated by summing the mass emission rates of individual HAPs.

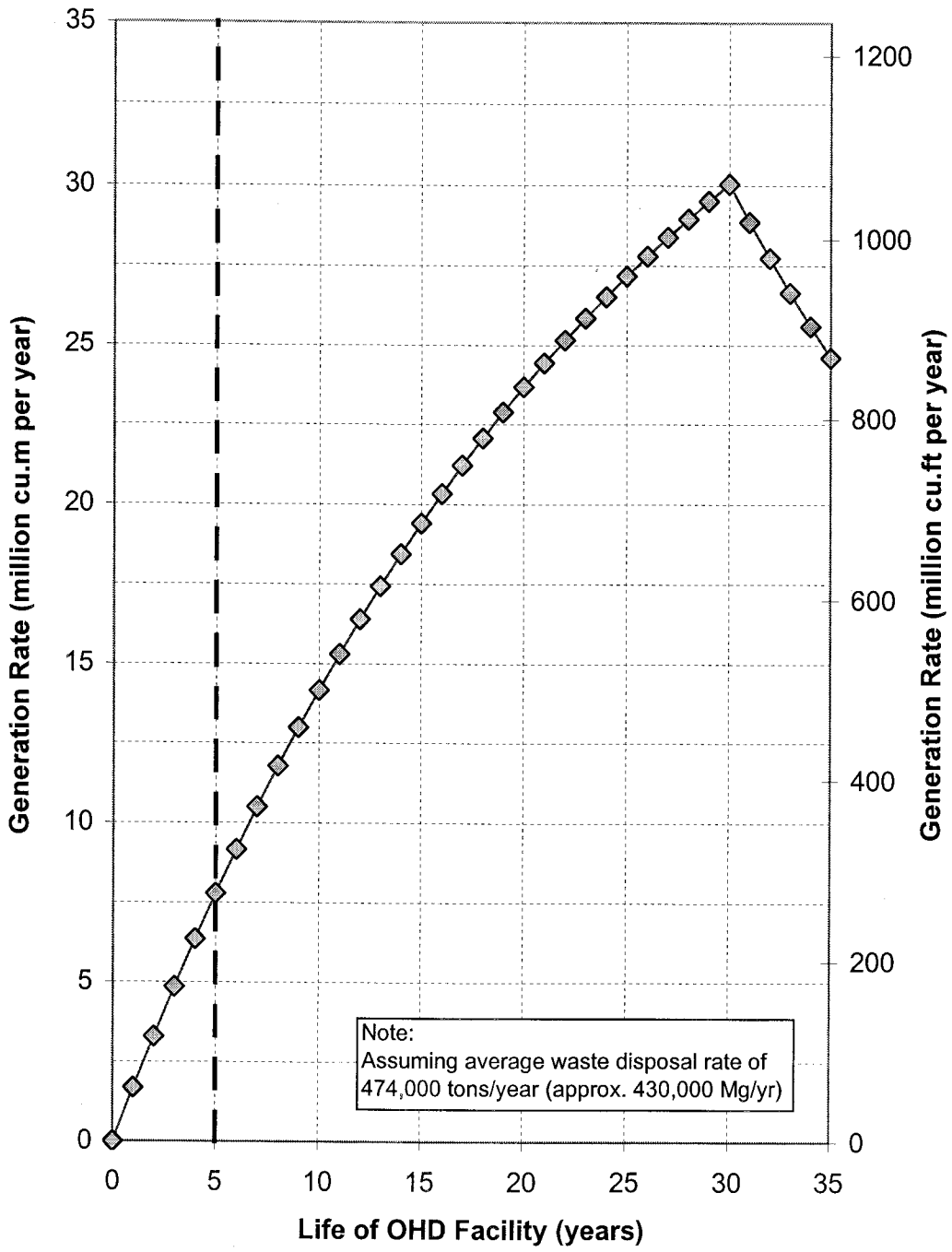
Table A1-1

CONCENTRATIONS AND MOLECULAR WEIGHTS USED IN ESTIMATING LANDFILL GAS CONSTITUENTS EMISSIONS

Compound	Concentration C_P (ppmv)	Molecular Weight MW_P (g/gmol)
Carbon Monoxide (CO)	141.00	28.01
Total Reduced Surfur (as S)	46.90	32.06
Non-Methane Organic Compound (NMOC)	595.00	86.18
Acrylonitrile	6.33	53.06
Hazardous Air Pollutants (HAP)		
1,1,1-Trichloroethane	0.48	133.42
1,1,2,2-Tetrachloroethane	1.11	167.85
1,1-Dichloroethane (ethylidene)	2.35	98.95
1,1-Dichloroethane (vinylidene)	0.20	96.94
1,2-Dichloroethane	0.41	98.96
1,2-Dichloropropane	0.18	112.98
Acrylonitrile	6.33	53.06
Butane	5.03	58.12
Carbon disulfide	0.58	76.13
Carbon tetrachloride	0.00	153.84
Carbonyl sulfide	0.49	60.07
Chlrorobenzene	0.25	112.56
Chloroethane	1.25	64.52
Chloroform	0.03	119.39
Dichlorobenzene	0.21	147.00
Dichloromethane	14.30	84.94
Ethylbenzene	4.61	106.16
Ethyl dibromide	0.00	187.88
Hexane	6.57	86.18
Mercury	0.00	200.61
Methyl ethyl keytone	7.09	72.11
Methyl isobutyl keytone	1.87	100.16
Perchloroethylene	3.73	165.83
Vinyl chloride	7.34	62.50
Xylenes	12.10	106.16

Figure A1-1

METHANE GENERATION RATE



Attachment 2

LANDFILL GAS CONSTITUENTS EMISSION ESTIMATED USING USEPA SOFTWARE

The methane (CH_4) generation rate and some of the landfill gas (LFG) constituents emission were also estimated using USEPA software entitled "*Landfill Gas Emissions Model (Version 2.01)*". The software was downloaded from the USEPA's official website. The results obtained using the USEPA software were used to verify the CH_4 generation rate presented in Figure A1-1 and the uncontrolled mass emission rates of CO, NMOC, and acrylonitrile presented in Figures 1, 3, and 6, respectively.

The parameters discussed in Attachment 1 were used as input parameters in the USEPA software. The USEPA software output for CH_4 generation rate and uncontrolled mass emission rates of CO, NMOC, and acrylonitrile are presented in Tables A2-1 through A2-4 and in Figures A2-1 through A2-4. As noted, the results obtained from the software are in general agreement with the results presented in Figures 1, 3, 6, and A1-1.

The uncontrolled mass emission rates of CO, NMOC, and acrylonitrile estimated using the USEPA software are about 10 to 15 percent higher than those estimated using the procedure outlined in AP-42 (Attachment 1). The main reason for this difference is that the USEPA software assumes 50 percent of the LFG is CH_4 (by volume) whereas the procedure outlined in AP-42 assumes 55 percent of the LFG is CH_4. Since total LFG generated is estimated based on CH_4 generation rate, the total LFG estimated using the USEPA software is higher, which in turn results in higher uncontrolled mass emission rates of the LFG constituents.

Source: C:\EPALAN~1\OMNI.PRM

TABLE A2-1 : METHANE GENERATION RATE

Model Parameters

Lo : 100.00 m^3 / Mg
k : 0.0400 1/yr
NMOC : 595.00 ppmv
Methane : 50.0000 % volume
Carbon Dioxide : 50.0000 % volume

Landfill Parameters

Landfill type : No Co-Disposal
Year Opened : 2003 Current Year : 2033 Closure Year: 2033
Capacity : 12900000 Mg
Average Acceptance Rate Required from
Current Year to Closure Year : 0.00 Mg/year

Model Results

Year	Refuse In Place (Mg)	Methane Emission Rate (Mg/yr)	Methane Emission Rate (Cubic m/yr)
2004	4.300E+05	1.147E+03	1.720E+06
2005	8.600E+05	2.250E+03	3.373E+06
2006	1.290E+06	3.309E+03	4.960E+06
2007	1.720E+06	4.327E+03	6.486E+06
2008	2.150E+06	5.305E+03	7.952E+06
2009	2.580E+06	6.244E+03	9.360E+06
2010	3.010E+06	7.147E+03	1.071E+07
2011	3.440E+06	8.014E+03	1.201E+07
2012	3.870E+06	8.847E+03	1.326E+07
2013	4.300E+06	9.648E+03	1.446E+07
2014	4.730E+06	1.042E+04	1.561E+07
2015	5.160E+06	1.116E+04	1.672E+07
2016	5.590E+06	1.187E+04	1.779E+07
2017	6.020E+06	1.255E+04	1.881E+07
2018	6.450E+06	1.320E+04	1.979E+07
2019	6.880E+06	1.383E+04	2.074E+07
2020	7.310E+06	1.444E+04	2.164E+07
2021	7.740E+06	1.502E+04	2.251E+07
2022	8.170E+06	1.558E+04	2.335E+07
2023	8.600E+06	1.612E+04	2.416E+07
2024	9.030E+06	1.663E+04	2.493E+07
2025	9.460E+06	1.713E+04	2.567E+07
2026	9.890E+06	1.760E+04	2.638E+07
2027	1.032E+07	1.806E+04	2.707E+07
2028	1.075E+07	1.850E+04	2.773E+07
2029	1.118E+07	1.892E+04	2.836E+07
2030	1.161E+07	1.933E+04	2.897E+07
2031	1.204E+07	1.972E+04	2.955E+07
2032	1.247E+07	2.009E+04	3.011E+07
2033	1.290E+07	2.045E+04	3.065E+07
2034	1.290E+07	1.965E+04	2.945E+07
2035	1.290E+07	1.888E+04	2.830E+07
2036	1.290E+07	1.814E+04	2.719E+07
2037	1.290E+07	1.743E+04	2.612E+07
2038	1.290E+07	1.674E+04	2.510E+07
2039	1.290E+07	1.609E+04	2.411E+07
2040	1.290E+07	1.546E+04	2.317E+07
2041	1.290E+07	1.485E+04	2.226E+07
2042	1.290E+07	1.427E+04	2.139E+07
2043	1.290E+07	1.371E+04	2.055E+07
2044	1.290E+07	1.317E+04	1.974E+07
2045	1.290E+07	1.265E+04	1.897E+07
2046	1.290E+07	1.216E+04	1.822E+07
2047	1.290E+07	1.168E+04	1.751E+07
2048	1.290E+07	1.122E+04	1.682E+07
2049	1.290E+07	1.078E+04	1.616E+07

Source: C:\EPALAN~1\OMNI.PRM

TABLE A2-2: CO EMISSION RATE

Model Parameters

Lo : 100.00 m^3 / Mg
k : 0.0400 1/yr
NMOC : 595.00 ppmv
Methane : 50.0000 % volume
Carbon Dioxide : 50.0000 % volume
Air Pollutant : Carbon Monoxide
Molecular Wt = 28.01 Concentration = 141.000000 ppmV

Landfill Parameters

Landfill type : No Co-Disposal
Year Opened : 2003 Current Year : 2033 Closure Year: 2033
Capacity : 12900000 Mg
Average Acceptance Rate Required from
Current Year to Closure Year : 0.00 Mg/year

Model Results

Year	Refuse In Place (Mg)	Carbon Monoxide Emission Rate (Mg/yr)	(Cubic m/yr)
2004	4.300E+05	5.651E-01	4.850E+02
2005	8.600E+05	1.108E+00	9.511E+02
2006	1.290E+06	1.630E+00	1.399E+03
2007	1.720E+06	2.131E+00	1.829E+03
2008	2.150E+06	2.612E+00	2.242E+03
2009	2.580E+06	3.075E+00	2.639E+03
2010	3.010E+06	3.519E+00	3.021E+03
2011	3.440E+06	3.947E+00	3.388E+03
2012	3.870E+06	4.357E+00	3.740E+03
2013	4.300E+06	4.751E+00	4.078E+03
2014	4.730E+06	5.130E+00	4.403E+03
2015	5.160E+06	5.494E+00	4.716E+03
2016	5.590E+06	5.844E+00	5.016E+03
2017	6.020E+06	6.179E+00	5.304E+03
2018	6.450E+06	6.502E+00	5.581E+03
2019	6.880E+06	6.812E+00	5.847E+03
2020	7.310E+06	7.110E+00	6.103E+03
2021	7.740E+06	7.397E+00	6.349E+03
2022	8.170E+06	7.672E+00	6.585E+03
2023	8.600E+06	7.936E+00	6.812E+03
2024	9.030E+06	8.190E+00	7.030E+03
2025	9.460E+06	8.434E+00	7.239E+03
2026	9.890E+06	8.668E+00	7.440E+03
2027	1.032E+07	8.893E+00	7.634E+03
2028	1.075E+07	9.110E+00	7.819E+03
2029	1.118E+07	9.318E+00	7.998E+03
2030	1.161E+07	9.517E+00	8.169E+03
2031	1.204E+07	9.709E+00	8.334E+03
2032	1.247E+07	9.894E+00	8.492E+03
2033	1.290E+07	1.007E+01	8.644E+03
2034	1.290E+07	9.676E+00	8.305E+03
2035	1.290E+07	9.296E+00	7.980E+03
2036	1.290E+07	8.932E+00	7.667E+03
2037	1.290E+07	8.582E+00	7.366E+03
2038	1.290E+07	8.245E+00	7.077E+03
2039	1.290E+07	7.922E+00	6.800E+03
2040	1.290E+07	7.611E+00	6.533E+03
2041	1.290E+07	7.313E+00	6.277E+03
2042	1.290E+07	7.026E+00	6.031E+03
2043	1.290E+07	6.751E+00	5.794E+03
2044	1.290E+07	6.486E+00	5.567E+03
2045	1.290E+07	6.232E+00	5.349E+03
2046	1.290E+07	5.987E+00	5.139E+03
2047	1.290E+07	5.753E+00	4.938E+03

Source: C:\EPALAN~1\OMNI.PRM

TABLE A2-3 : NMOC EMISSION RATE

Model Parameters

Lo : 100.00 m^3 / Mg
k : 0.0400 1/yr
NMOC : 595.00 ppmv
Methane : 50.0000 % volume
Carbon Dioxide : 50.0000 % volume

Landfill Parameters

Landfill type : No Co-Disposal
Year Opened : 2003 Current Year : 2033 Closure Year: 2033
Capacity : 12900000 Mg
Average Acceptance Rate Required from
Current Year to Closure Year : 0.00 Mg/year

Model Results

Year	Refuse In Place (Mg)	NMOC Emission Rate (Mg/yr)	NMOC Emission Rate (Cubic m/yr)
2004	4.300E+05	7.337E+00	2.047E+03
2005	8.600E+05	1.439E+01	4.013E+03
2006	1.290E+06	2.116E+01	5.903E+03
2007	1.720E+06	2.767E+01	7.718E+03
2008	2.150E+06	3.392E+01	9.462E+03
2009	2.580E+06	3.992E+01	1.114E+04
2010	3.010E+06	4.570E+01	1.275E+04
2011	3.440E+06	5.124E+01	1.430E+04
2012	3.870E+06	5.657E+01	1.578E+04
2013	4.300E+06	6.169E+01	1.721E+04
2014	4.730E+06	6.660E+01	1.858E+04
2015	5.160E+06	7.133E+01	1.990E+04
2016	5.590E+06	7.587E+01	2.117E+04
2017	6.020E+06	8.023E+01	2.238E+04
2018	6.450E+06	8.442E+01	2.355E+04
2019	6.880E+06	8.845E+01	2.468E+04
2020	7.310E+06	9.232E+01	2.575E+04
2021	7.740E+06	9.603E+01	2.679E+04
2022	8.170E+06	9.960E+01	2.779E+04
2023	8.600E+06	1.030E+02	2.875E+04
2024	9.030E+06	1.063E+02	2.966E+04
2025	9.460E+06	1.095E+02	3.055E+04
2026	9.890E+06	1.125E+02	3.140E+04
2027	1.032E+07	1.155E+02	3.221E+04
2028	1.075E+07	1.183E+02	3.300E+04
2029	1.118E+07	1.210E+02	3.375E+04
2030	1.161E+07	1.236E+02	3.447E+04
2031	1.204E+07	1.261E+02	3.517E+04
2032	1.247E+07	1.285E+02	3.584E+04
2033	1.290E+07	1.308E+02	3.648E+04
2034	1.290E+07	1.256E+02	3.505E+04
2035	1.290E+07	1.207E+02	3.367E+04
2036	1.290E+07	1.160E+02	3.235E+04
2037	1.290E+07	1.114E+02	3.108E+04
2038	1.290E+07	1.071E+02	2.987E+04
2039	1.290E+07	1.029E+02	2.869E+04
2040	1.290E+07	9.882E+01	2.757E+04
2041	1.290E+07	9.495E+01	2.649E+04
2042	1.290E+07	9.122E+01	2.545E+04
2043	1.290E+07	8.765E+01	2.445E+04
2044	1.290E+07	8.421E+01	2.349E+04
2045	1.290E+07	8.091E+01	2.257E+04
2046	1.290E+07	7.774E+01	2.169E+04
2047	1.290E+07	7.469E+01	2.084E+04
2048	1.290E+07	7.176E+01	2.002E+04
2049	1.290E+07	6.895E+01	1.923E+04

Source: C:\EPALAN~1\OMNI.PRM

TABLE A2-4: ACRYLONITRILE EMISSION RATE

Model Parameters

Lo : 100.00 m^3 / Mg
k : 0.0400 1/yr
NMOC : 595.00 ppmv
Methane : 50.0000 % volume
Carbon Dioxide : 50.0000 % volume
Air Pollutant : Acrylonitrile (HAP/VOC)
Molecular Wt = 53.06 Concentration = 6.330000 ppmV

Landfill Parameters

Landfill type : No Co-Disposal
Year Opened : 2003 Current Year : 2033 Closure Year: 2033
Capacity : 12900000 Mg
Average Acceptance Rate Required from
Current Year to Closure Year : 0.00 Mg/year

Model Results

Year	Refuse In Place (Mg)	Acrylonitrile (HAP/VOC) Emission Rate (Mg/yr)	(Cubic m/yr)
2004	4.300E+05	4.806E-02	2.178E+01
2005	8.600E+05	9.423E-02	4.270E+01
2006	1.290E+06	1.386E-01	6.280E+01
2007	1.720E+06	1.812E-01	8.211E+01
2008	2.150E+06	2.222E-01	1.007E+02
2009	2.580E+06	2.615E-01	1.185E+02
2010	3.010E+06	2.993E-01	1.356E+02
2011	3.440E+06	3.356E-01	1.521E+02
2012	3.870E+06	3.705E-01	1.679E+02
2013	4.300E+06	4.041E-01	1.831E+02
2014	4.730E+06	4.363E-01	1.977E+02
2015	5.160E+06	4.672E-01	2.117E+02
2016	5.590E+06	4.970E-01	2.252E+02
2017	6.020E+06	5.255E-01	2.381E+02
2018	6.450E+06	5.530E-01	2.506E+02
2019	6.880E+06	5.793E-01	2.625E+02
2020	7.310E+06	6.047E-01	2.740E+02
2021	7.740E+06	6.290E-01	2.850E+02
2022	8.170E+06	6.524E-01	2.956E+02
2023	8.600E+06	6.749E-01	3.058E+02
2024	9.030E+06	6.965E-01	3.156E+02
2025	9.460E+06	7.172E-01	3.250E+02
2026	9.890E+06	7.372E-01	3.340E+02
2027	1.032E+07	7.563E-01	3.427E+02
2028	1.075E+07	7.747E-01	3.510E+02
2029	1.118E+07	7.924E-01	3.591E+02
2030	1.161E+07	8.094E-01	3.667E+02
2031	1.204E+07	8.257E-01	3.741E+02
2032	1.247E+07	8.414E-01	3.812E+02
2033	1.290E+07	8.564E-01	3.881E+02
2034	1.290E+07	8.229E-01	3.729E+02
2035	1.290E+07	7.906E-01	3.582E+02
2036	1.290E+07	7.596E-01	3.442E+02
2037	1.290E+07	7.298E-01	3.307E+02
2038	1.290E+07	7.012E-01	3.177E+02
2039	1.290E+07	6.737E-01	3.053E+02
2040	1.290E+07	6.473E-01	2.933E+02
2041	1.290E+07	6.219E-01	2.818E+02
2042	1.290E+07	5.975E-01	2.708E+02
2043	1.290E+07	5.741E-01	2.601E+02
2044	1.290E+07	5.516E-01	2.499E+02
2045	1.290E+07	5.300E-01	2.401E+02
2046	1.290E+07	5.092E-01	2.307E+02
2047	1.290E+07	4.892E-01	2.217E+02

FIGURE A2-1

Projected Methane Emissions

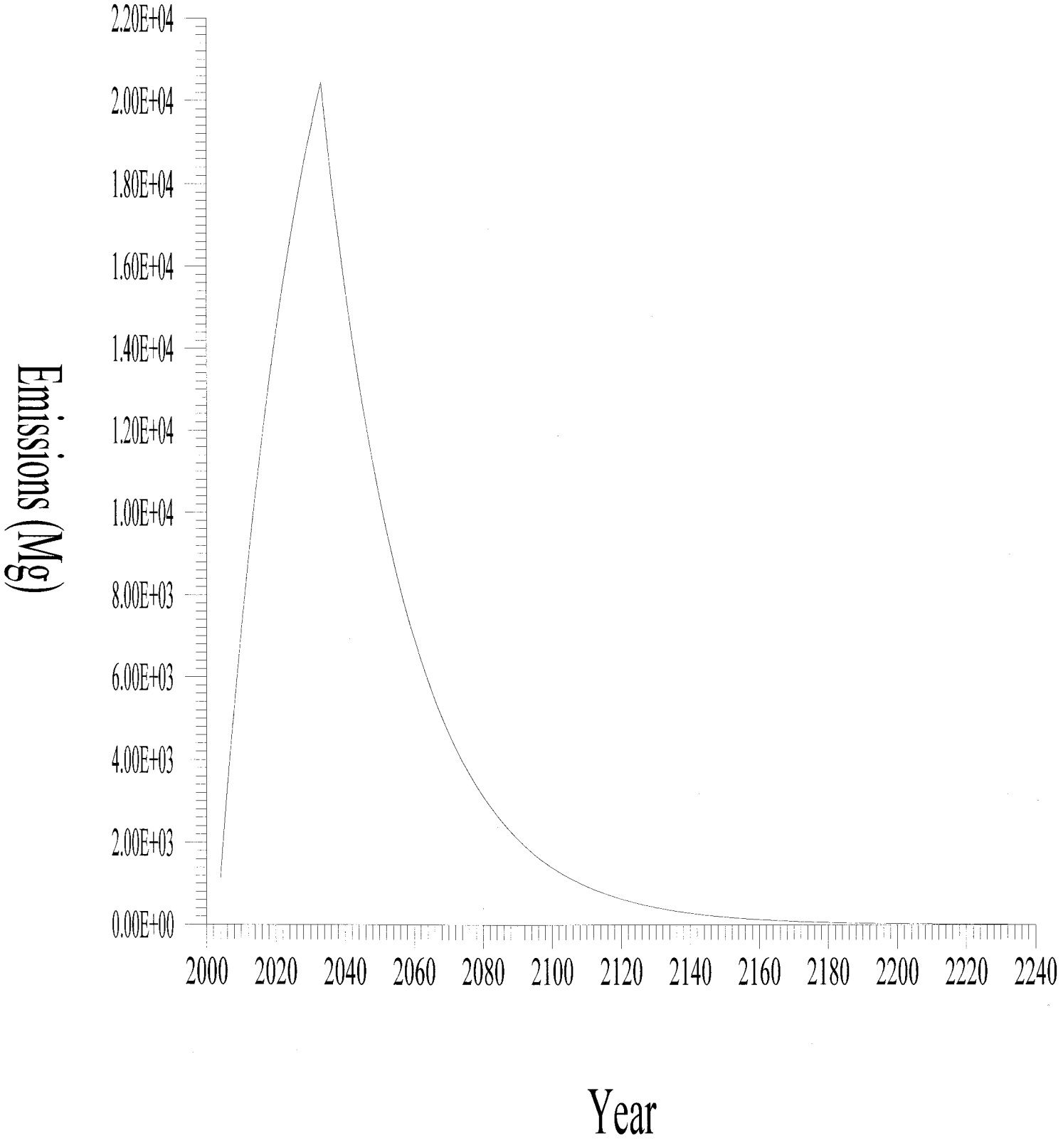


FIGURE A2-2

Projected Carbon Monoxide Emissions

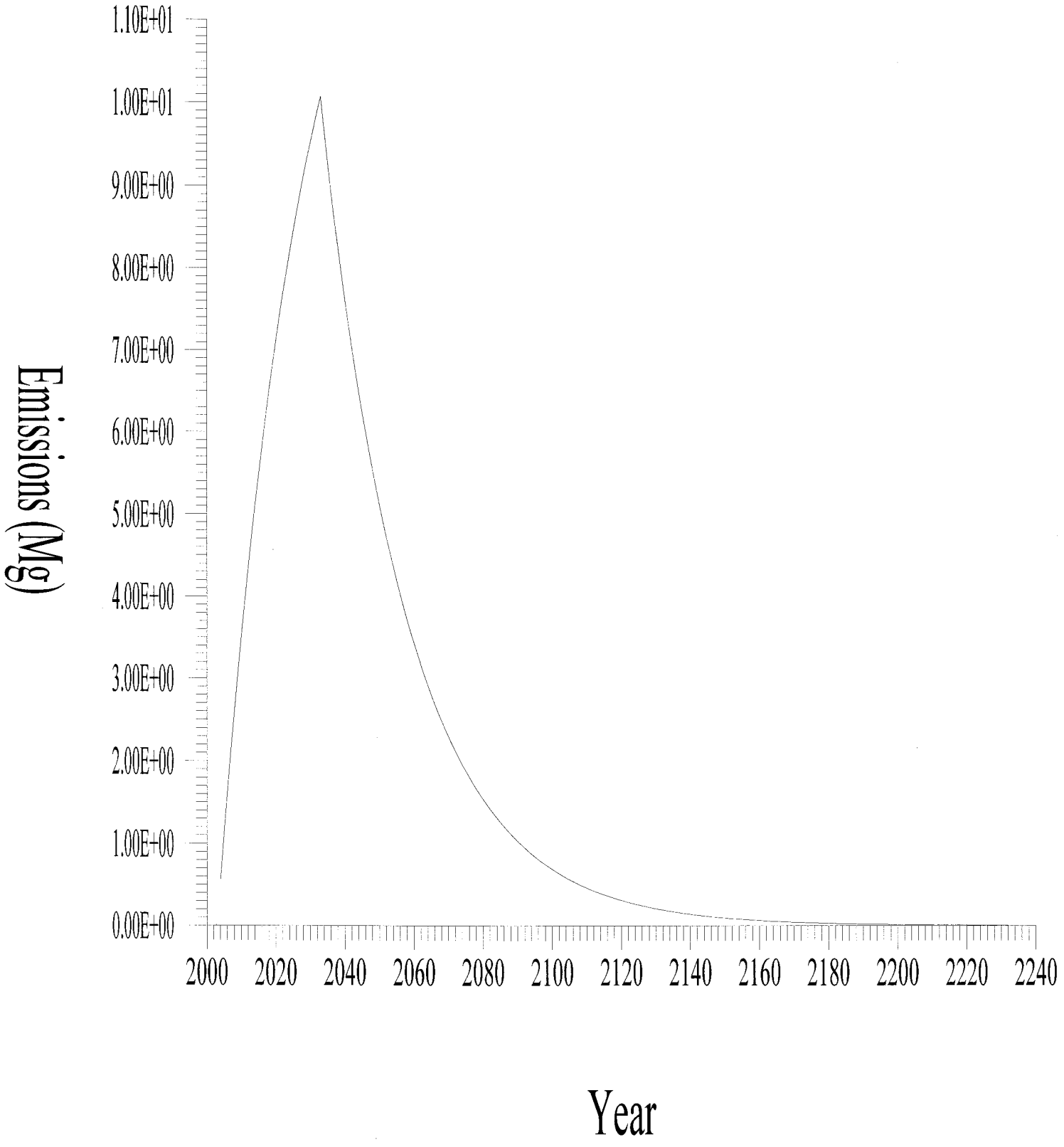


FIGURE A2-3

Projected NMOC Emissions

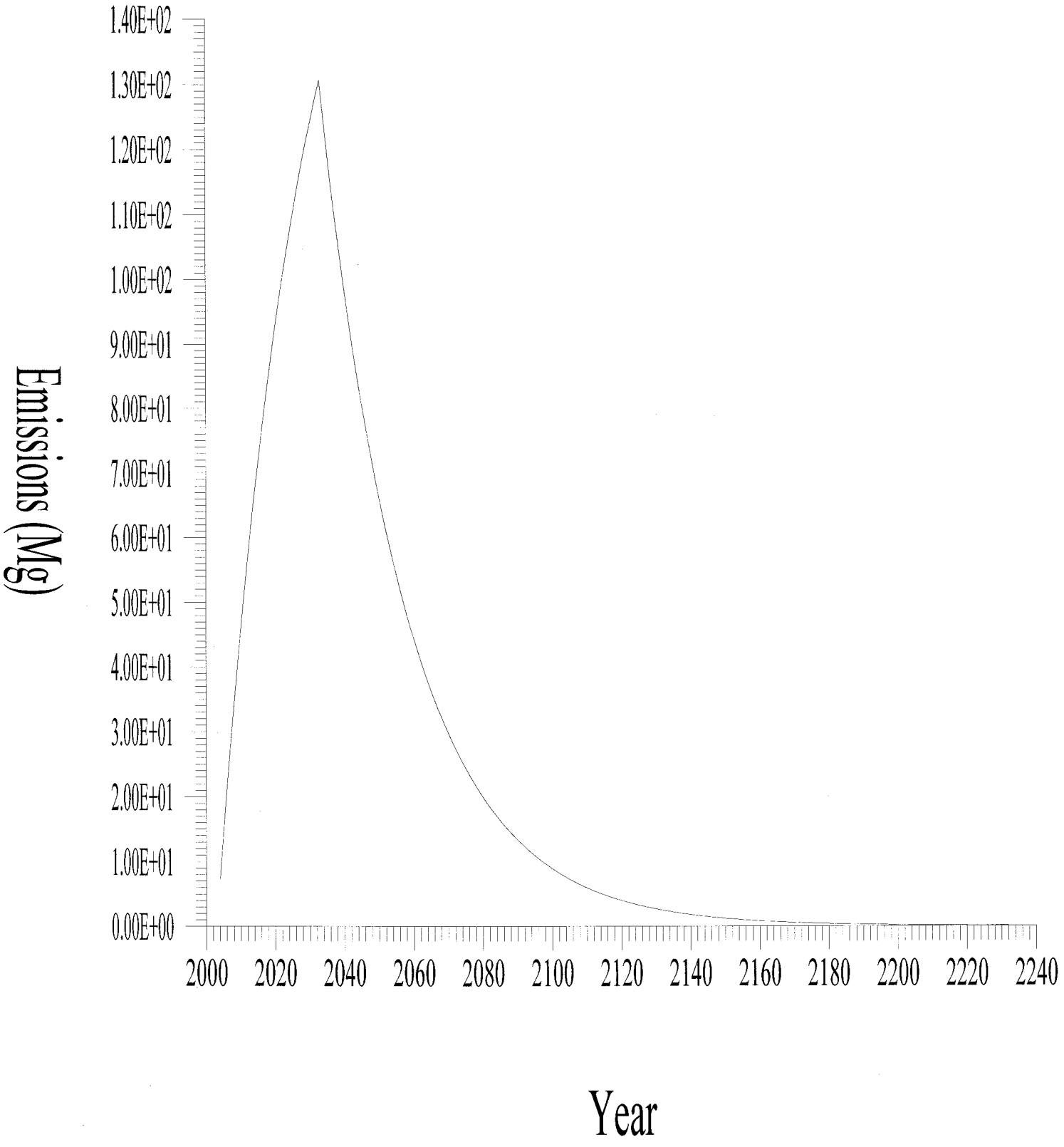
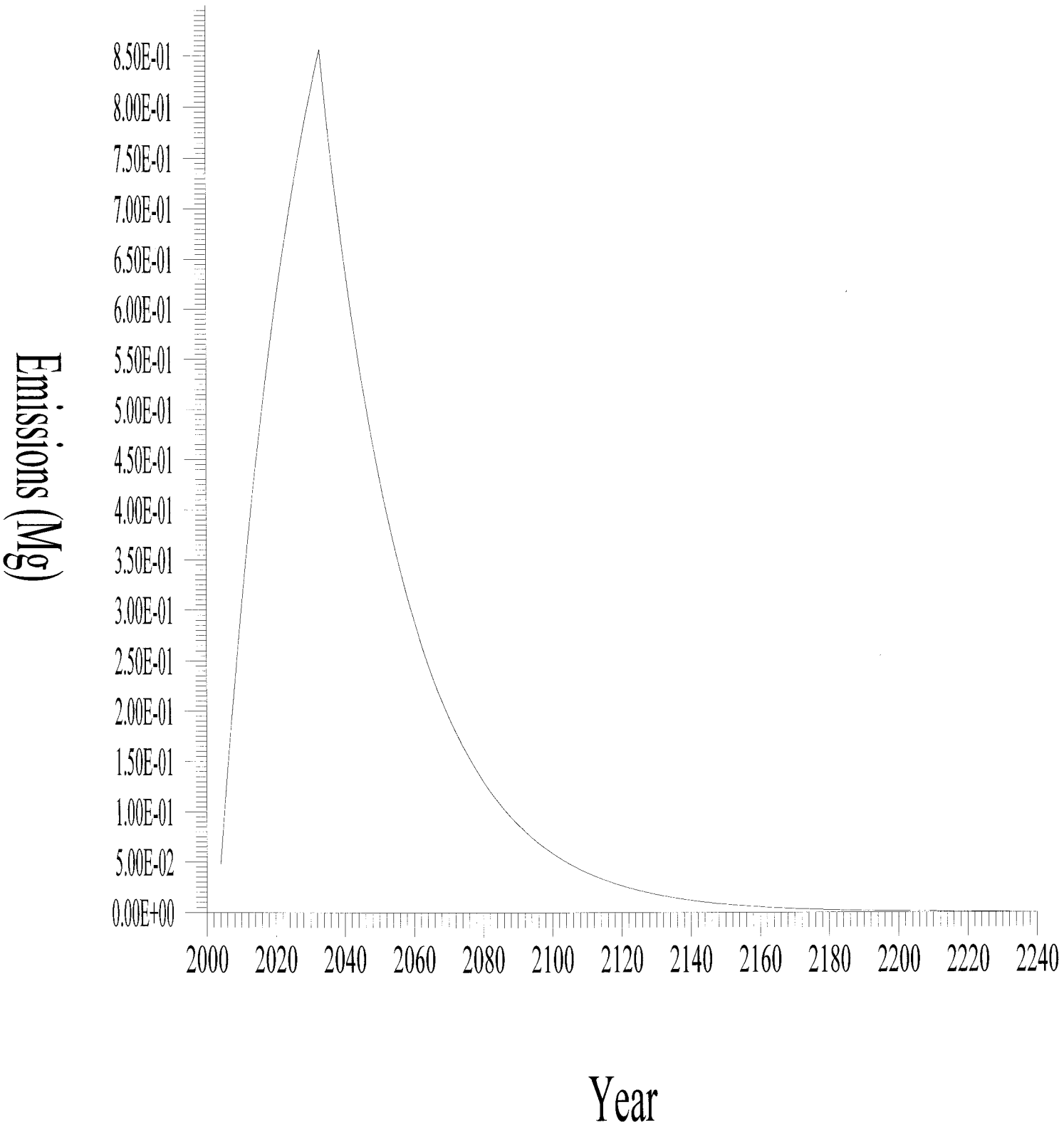


FIGURE A2-4

Projected Acrylonitrile (HAP/VOC) Emissions



Omni Waste

P.O. Box 421613
Kissimmee, FL 34742
407-957-7284 Phone
407-957-7202 Fax

October 16, 2002

Mr. James Bradner, P.E.
Florida Department of Environmental Protection
3319 Maguire Blvd, Suite 232
Orlando, FL 32803

RE: Affidavit of Publication of Proposed Agency Action
Oak Hammock Disposal Facility, Holopaw, Florida
Sections 11, 13 and 14 Township 28 South, Range 32 East
Section 18, Township 28 South, Range 33 East

Dear Mr. Bradner:

Please find enclosed the ***original*** Affidavit of Publication of Proposed Agency Action. This information was published on 02 October 2002 in the Osceola County section of the Orlando Sentinel. Also enclosed are copies of the certified letters regarding the Notice of Intent, which were sent to Chairman Owen of the Board of County Commissioners for Osceola County, State Senator Howard Futch and State Representative Frank Attkisson. If you need additional information please feel free to contact me.

Sincerely,

Tim Salopek/ss

Timothy J. Salopek
President

TJS/ss

Enclosures

cc: David Dee/Landers & Parsons: with enclosures
Ken Cargill/GeoSyntec Consultants: with enclosures

Orlando Sentinel

Published Daily

State of Florida } S.S.
COUNTY OF ORANGE

Before the undersigned authority personally appeared BEVERLY C. SIMMONS, 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 SC49-0199726-001, S049-0199726-002

in the OSCEOLA Court, was published in said newspaper in the issue; of 10/02/02

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.

Beverly C. Simmons

The foregoing instrument was acknowledged before me this 2nd day of OCTOBER, 20 02, by BEVERLY C. SIMMONS,
who is personally known to me and who did take an oath.

(SEAL)

DEBORAH M TONEY
My Comm Exp. 11/18/2005
No. DD 072954
[X] Personally Known [ ] Other I.D.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENT PROTECTION
NOTICE OF PROPOSED AGENCY ACTION

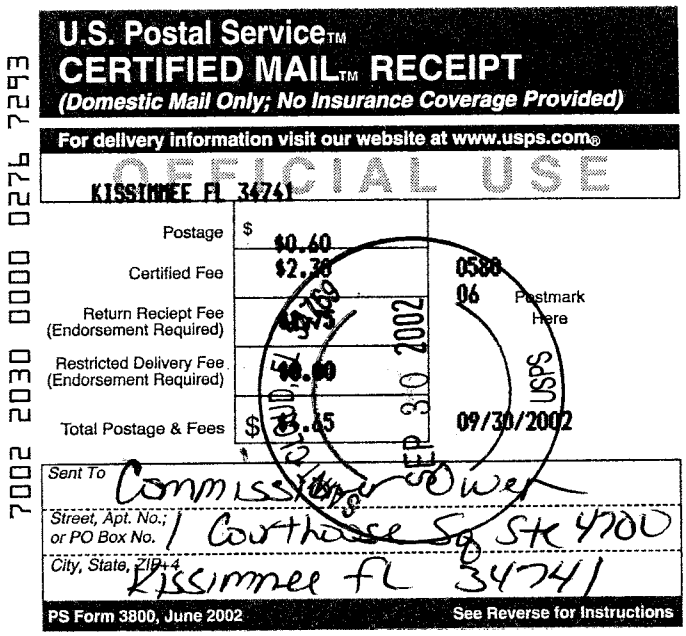
The Department of Environmental Protection gives Notice of Intent to Issue a construction and operation permit to Omni Waste of Osceola County, LLC/Timothy J. Salopek, 100 Church St., Kissimmee FL 34741, to construct and operate the Oak Hammock Disposal, Class I landfill, in Osceola County, Florida. The landfill is located approximately 6.5 miles south of Holopaw, on the west side of U.S. 441, in unincorporated Osceola County, FL.

The Department has assigned File Numbers SC49-0199726-001 & SO49-0199726-002, to the project and has considered the effects of this landfill on ground water and surface water.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at Departments Central District Office, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803, Telephone 407/893-3328.

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Marjory Stoneman Douglas Building, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to

Omni Waste



September 27, 2002

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

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Chairman Owen:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

Omni Waste


U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE
KISSIMMEE FL 34741
Postage $ $0.60
Certified Fee $2.30
Return Reciept Fee (Endorsement Required) $1.75
Restricted Delivery Fee (Endorsement Required) $0.00
Total Postage & Fees $ $4.65
0580
Postmark Here
SEP 30 2002
USPS
09/30/2002
7002 2030 0000 0276 7286
Sent To Frank Attkisson
Street, Apt. No.; or PO Box No. 323 Pleasant St
City, State, ZIP+4 Kissimmee fl 34741
PS Form 3800, June 2002
See Reverse for Instructions

September 27, 2002

Honorable Frank Attkisson, State Representative
District 79
323 Pleasant Street
Kissimmee, Florida 34741-5763

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Representative Attkisson:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

Omni Waste

September 27, 2002

Honorable Howard E. Futch, State Senator
District 18
134 Fifth Avenue
Suite 103
Indialantic, Florida 32903

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Senator Futch:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Frank Atkisson
State Representative
323 Pleasant Street
Kissimmee FL 34741

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Rose Hernandez ☐ Agent ☐ Addressee

B. Received by (*Printed Name*) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*) 7002 2030 0000 0276 7286

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Howard E. Fotel
State Senator
134 Fifth Avenue
Suite 103
Indialantic FL
32903

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☒ Agent ☐ Addressee

B. Received by (*Printed Name*) Eileen D. Fields C. Date of Delivery 10-1-0

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*) 7002 2030 0000 0276 7279

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Commissioner Owen
1 Courthouse Square
Suite 4700
Kissimmee FL
34741

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Andra Jackson ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Andra Jackson

C. Date of Delivery OCT 01 2002

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7002 2030 0000 0276 7293

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

Williams, Elizabeth

Full Name:	Kaplan, Ronald M.
Last Name:	Kaplan
First Name:	Ronald
Job Title:	Esq.
Company:	Fl Counsel for Waste Management, Inc.
Business Address:	2700 NW 48th St. Pompano Beach, FL 33703

Williams, Elizabeth

From: Carter, Kathy
Sent: Friday, October 18, 2002 9:20 AM
To: Williams, Elizabeth
Subject: RE: Omni Waste/Oak Hammock Disposal, Class I

Elizabeth:

Sorry you ran into problems. I checked the Microsoft directory and it is correct. I haven't heard of any problems with my phone, but no telling what could have happened. My SC number into my office is 205-2212, the number 205-2242 is to the main OGC number.

I got a call yesterday from outside the agency regarding these two, and I had nothing filed on either of them.

Hope you have a great day!

-----Original Message-----
From: Williams, Elizabeth
Sent: Friday, October 18, 2002 8:19 AM
To: Carter, Kathy
Cc: Bradner, James
Subject: Omni Waste/Oak Hammock Disposal, Class I

Kathy:
I was unable to reach you by phone. All numbers that were given to me are non-working numbers (even directory assistance gave me incorrect numbers). I was told that the new numbers don't work either.

Please check to see if anyone has called for a hearing on Oak Hammock Disposal, Class I solid waste permit application, numbers
SC49-0199726-001 & SO49-0199726-002. We are ready to issue the permit but need this information BEFORE we can issue it.

Thank you.
Elizabeth Williams

Adobe Acrobat Reader 5.0 can be downloaded for free at the following Internet site: http://www.adobe.com/products/acrobat/readstep.html

It is imperative that you reply to this e-mail indicating that you received this document. It is important that we track this information.

Elizabeth Williams
elizabeth.williams@dep.state.fl.us
Administrative Secretary
Waste Management
Department of Environmental Protection
Telephone 407/893-3328
Suncom 325-3328
Fax 407/893-3124

Omni Waste

P.O. Box 421613
Kissimmee, FL 34742
(407) 957-7284 Telephone
(407) 957-7202 Fax

FACSIMILE

TO: Jim Bradner / Elizabeth Williams

FROM: Sharon Stanfill

FAX#: 407-893-3124

SUBJECT: Oak Hammock

DATE: 10-18-02

PAGES: 8 *(including cover sheet)*

Omni Waste

P.O. Box 421613
Kissimmee, FL 34742
407-957-7284 Phone
407-957-7202 Fax

October 16, 2002

Mr. James Bradner, P.E.
Florida Department of Environmental Protection
3319 Maguire Blvd, Suite 232
Orlando, FL 32803

RE: Affidavit of Publication of Proposed Agency Action
Oak Hammock Disposal Facility, Holopaw, Florida
Sections 11, 13 and 14 Township 28 South, Range 32 East
Section 18, Township 28 South, Range 33 East

Dear Mr. Bradner:

Please find enclosed the ***original*** Affidavit of Publication of Proposed Agency Action. This information was published on 02 October 2002 in the Osceola County section of the Orlando Sentinel. Also enclosed are copies of the certified letters regarding the Notice of Intent, which were sent to Chairman Owen of the Board of County Commissioners for Osceola County, State Senator Howard Futch and State Representative Frank Attkisson. If you need additional information please feel free to contact me.

Sincerely,

Tim Salopek/ss

Timothy J. Salopek
President

TJS/ss

Enclosures

cc: David Dee/Landers & Parsons: with enclosures
Ken Cargill/GeoSyntec Consultants: with enclosures

Orlando Sentinel

Published Daily

State of Florida } S.S.
COUNTY OF ORANGE }

Before the undersigned authority personally appeared BEVERLY C. SIMMONS 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 SC49-0199726-001, SO49-0199726-002

in the OSCEOLA Court, was published in said newspaper in the issue; of 10/02/02

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 2nd day of OCTOBER, 20 02, by BEVERLY C. SIMMONS, who is personally known to me and who did take an oath.

(SEAL)

DEBORAH M TONEY
My Comm Exp. 11/18/2006
No. DD 072964
[] Personally Known [] Other I.D.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Protection gives Notice of intent to issue a construction and operation permit to Omni Waste of Osceola County, LLC/Timothy A. Schmidt, 100 Church St., Kissimmee FL 34741, to construct and operate the Class I Horizontal Disposal Cells 1 through 10 in Osceola County, Florida. The facility is located approximately 4.5 miles south of Kissimmee, on the west side of U.S. 441, in unincorporated Osceola County, FL.

The Department has assigned File Numbers SC49-0199726-001 & SO49-0199726-002, to the project and has considered the effects of this project on ground water and surface water.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. - 5:00 p.m., Monday through Friday, except legal holidays, at Department of Environmental Protection District Office, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803, Telephone: 407/894-7555.

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Agency Clerk, Douglas Building, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

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

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

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

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

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

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

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

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

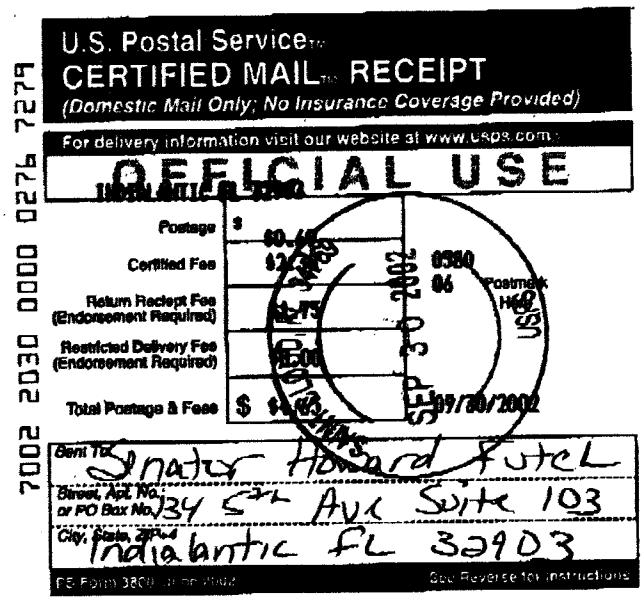
NOTE: A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301 of the Florida Administrative Code.

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

In accordance with section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.

Oct 2, 2002

Omni Waste



September 27, 2002

Honorable Howard E. Futch, State Senator
District 18
134 Fifth Avenue
Suite 103
Indialantic, Florida 32903

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Senator Futch:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

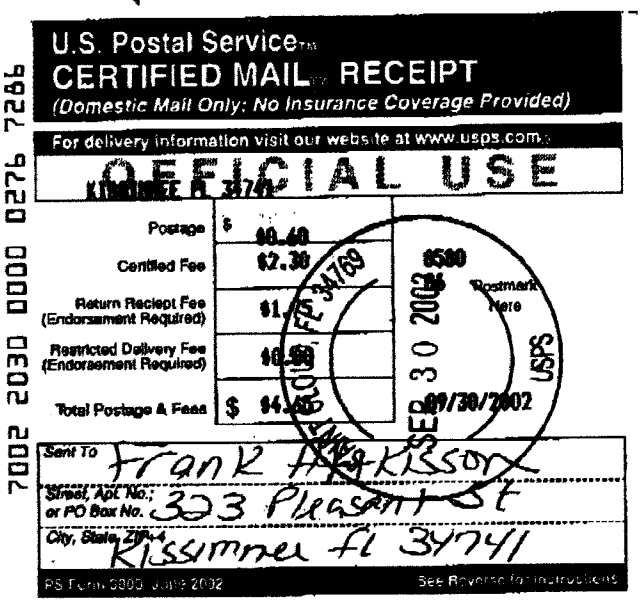
Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

Omni Waste



September 27, 2002

Honorable Frank Attkisson, State Representative
District 79
323 Pleasant Street
Kissimmee, Florida 34741-5763

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Representative Attkisson:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

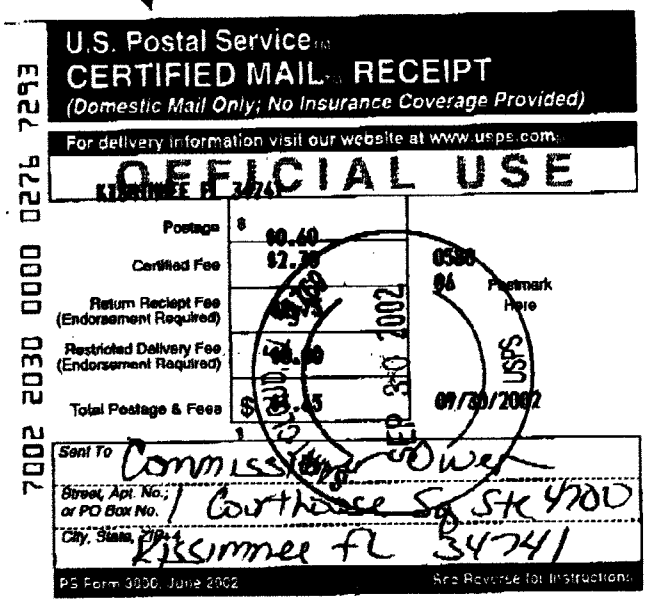
Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

Omni Waste



September 27, 2002

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

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Chairman Owen:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Commissioner Owen
1 Courthouse Square
Suite 4700
Kissimmee FL
34741

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Andra Jackson ☐ Agent ☐ Addressee

B. Received by (Printed Name) Andra Jackson C. Date of Delivery OCT 01 2002

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7002 2030 0000 0276 7293

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Howard E. Fotel
State Senator
134 Fifth Avenue
Suite 103
Indialantic FL
32903

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☒ Agent ☐ Addressee

B. Received by (Printed Name) [signature] C. Date of Delivery 10-1-0

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7002 2030 0000 0276 7279

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Fran K Atkisson
State Representative
323 Pleasant Street
Kissimmee FL 34741

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Rose Hernandez ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label) 7002 2030 0000 0276 7286

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

Omni Waste

P.O. Box 421613
Kissimmee, FL 34742
407-957-7284 Phone
407-957-7202 Fax

September 27, 2002

CERTIFIED MAIL

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

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Chairman Owen:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

Omni Waste

P.O. Box 421613
Kissimmee, FL 34742
407-957-7284 Phone
407-957-7202 Fax

September 27, 2002

CERTIFIED MAIL

Honorable Frank Attkisson, State Representative
District 79
323 Pleasant Street
Kissimmee, Florida 34741-5763

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Representative Attkisson:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

Omni Waste

P.O. Box 421613
Kissimmee, FL 34742
407-957-7284 Phone
407-957-7202 Fax

September 27, 2002

CERTIFIED MAIL

Honorable Howard E. Futch, State Senator
District 18
134 Fifth Avenue
Suite 103
Indialantic, Florida 32903

RE: Oak Hammock Disposal Facility
Osceola County, FL

Dear Senator Futch:

On September 24, 2002, the Florida Department of Environmental Protection (FDEP) gave notice of its intent to issue a permit to Omni Waste of Osceola County, LLC, for the construction and operation of the proposed Oak Hammock Landfill in Osceola County, Florida.

To comply with the requirements of FDEP Rule 62-701.320(8)(b), Florida Administrative Code, I am providing you with a copy of FDEP's "Intent to Issue" the permit to Omni.

If you have any questions about this project, you may call me or Mr. James Bradner, P.E., at the FDEP. My phone number is (407) 957-7284. Mr. Bradner's phone number is (407) 893-3329.

Sincerely,

Tim Salopek
President

TS/ss

Attachment: Notice of Proposed Agency Action

cc: Mr. James Bradner, P.E., FDEP

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

By E-mail
tjsomni@aol.com

In the Matter of an
Application for Permit by:

Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, FL 34741

Attention: Mr. Timothy J. Salopek

Osceola County - SW
Oak Hammock Disposal, Class I

DEP File Nos. SC49-0199726-001 &
SO49-0199726-002

INTENT TO ISSUE

The Department of Environmental Protection gives notice of its intent to issue a permit (copy of conditions attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Omni Waste of Osceola County, LLC/Timothy J. Salopek, applied on May 24, 2002, to the Department of Environmental Protection for a permit to construct and operate the Oak Hammock Disposal, Class I landfill, in Osceola County, Florida.

The Department has permitting jurisdiction under Section 403.707(1), F.S. and Chapters 62-4, 62-701 and 62-711, F.A.C. The project is not exempt from permitting procedures. The Department has determined that a construction and operation permit is required for the proposed work.

Pursuant to Section 403.815, F.S., you are required to publish at your own expense the enclosed Notice of Proposed Agency Action. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. You must provide proof of publication to the Department at the address listed below as soon as practical after publication. Department of Environmental Protection, 3319 Maguire Boulevard, Suite 232, Orlando, FL 32803, telephone 407/893-3328.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

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

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

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
(c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
(e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Mediation is not available in this proceeding.

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

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Vivian F. Garfein
Director, Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
407/894-7555

Date: September 24, 2002

FILING AND ACKNOWLEDGMENT

FILED, on this date, under Section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk Date 9/24/2002

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE and all copies were mailed by certified mail before the close of business on 9/25/02 to the listed persons.

VFG/gc/ew

Enclosures

Copies furnished to:
Richard B. Tedder, P.E. - DEP - Tallahassee
Fred Wick - DEP - Tallahassee (w/o attachments)
L. Kozlov - DEP - Air Section
Kenneth W. Cargill, P.E. - Geosyntec Consultants
KCargill@geosyntec.com
Gary L. Pickett
garpick1@juno.com
Jeannette Coughenour, Manager - Association of Poinciana Village, Inc.
apvmgr@kua.net
Ronald M. Kaplan, Esq. - Florida Counsel for Waste Management, Inc.
Janice Langenfeld
suny2455@bellsouth.net

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Protection gives Notice of its Intent to issue a construction and operation permit to Omni Waste of Osceola County, LLC/Timothy J. Salopek, 100 Church St., Kissimmee, FL 34741, to construct and operate the Oak Hammock Disposal, Class I landfill ,in Osceola County, Florida. The landfill is located approximately 6.5 miles south of Holopaw, on the west side of U. S. 441, in unincorporated Osceola County, FL.

The Department has assigned File Numbers SC49-0199726-001 & SO49-0199726-002, to the project and has considered the effects of this landfill on ground water and surface water.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Central District office, 3319 Maguire Boulevard, Suite 232, Orlando, FL 32803, Telephone 407/893-3328.

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Marjory Stoneman Douglas Building, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

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

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
(e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

NOTICE OF PERMIT

In the matter of an
Application for Permit
by:

By E-mail
tjsomni@aol.com

Mr. Timothy J. Salopek
Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, FL 34741

Osceola County – SW
Oak Hammock Disposal, Class I

Dear Mr. Salopek:

Enclosed is Permit Numbers SC49-0199726-001 & SO49-0199726-002, to construct and operate the Oak Hammock Disposal, Class I landfill, issued under section(s) 403.061(14) and 403.707, of the Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit under section 120.68 of the Florida Statutes, by the filing of a Notice of Appeal under rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this notice is filed with the Clerk of the Department.

DRAFT

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

_____
Vivian F. Garfein
Director, Central District
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803
407/894-7555

Date:_____

FILING AND ACKNOWLEDGMENT

FILED, on this date, under section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

_____

[Clerk] **[Date]**

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on to the listed persons.

VFG/gc/ew
Enclosure
Copies furnished to:
Richard Tedder, P.E. – DEP – Tallahassee
Fred Wick – DEP – Tallahassee
L. Kozlov, P.E. - DEP - Air Section
Kenneth W. Cargill, P.E. - Geosyntec Consultants
KCargill@geosyntec.com
Gary L. Pickett
garpick1@juno.com
Jeanette Coughenour, Manager - Association of Poinciana Village, Inc.
apvmgr@jua.net
Ronald M. Kaplan, Esq. - Florida Counsel for Waste Management, Inc.
Janice Langenfeld
suny2455@bellsouth.net

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

Permittee:
Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, FL 34741

Attention: Mr. Timothy J. Salopek

Permit Numbers: SC49-0199726-001 &
SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007
County: Osceola
Section/Township/Range:
11 & 14/ 28 South / 33 East
Latitude / Longitude:
28°02'57" North / 81°03'10" West
Project: Oak Hammock Disposal, Class I

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-701 and 62-711. The above named permittee is hereby authorized to perform the work and operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To construct and operate the Oak Hammock Disposal, Class I landfill. The present service area for the landfill is Osceola County and surrounding counties.

This five-year construct and operate permit will be for Phase I and will include four landfill cells with a footprint of approximately 53 acres and ancillary facilities supporting the operation of the landfill and providing stormwater management. The complete buildout of the facility will include 21 landfill cells with a footprint of approximately 264 acres within a property boundary of approximately 2179 acres. The anticipated life of the complete facility is 30 years.

Household trash, commercial waste, construction and demolition debris, and other waste classified as Class I waste may be disposed in the landfill. The waste will be from residential communities and commercial sources.

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 a leachate collection system (LCS). Collected leachate is pumped from the sumps into an on-site storage facility and trucked to a wastewater treatment plant (WWTP) periodically for treatment and disposal.

DRAFT

A gas management system will be implemented to control odors and migration of methane.

The project incorporates a ground water and surface water monitoring plan.

LOCATION: The landfill is located approximately 6.5 miles south of Holopaw, on the west side of U. S. Highway 441, in unincorporated Osceola County, Florida.

General Conditions are attached.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes (F.S.) The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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

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

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

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

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

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

   (a) Have access to and copy any records that must be kept under conditions of this permit;
   (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
   (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

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

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section

403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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

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

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

13. This permit also constitutes:

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

14. The permittee shall comply with the following:

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

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

    (c) Records of monitoring information shall include:
        1. the date, exact place, and time of sampling or measurements;
        2. the person responsible for performing the sampling or measurements;
        3. the dates analyses were performed;
        4. the person responsible for performing the analyses;
        5. the analytical techniques or methods used;
        6. the results of such analyses.

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

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

1. Plans and Specifications: Drawings, plans, documents and specifications submitted by the permittee are not attached hereto, but remain on file at the Central District office, and are made a part of this permit.

2. Inspection Requirements: A copy of the permit, with a complete copy of the permit application and engineering drawings, shall be kept on file at the landfill for inspection and review upon request.

3. Other Permits: This permit does not relieve the permittee from complying with any other appropriate stormwater, ERP or other permit requirements.

4. Signs: Signs indicating the name of the operating authority, traffic flow, hours of operation, charges for disposal and the types of wastes accepted shall be placed at all entrances to the site.

5. Site Access: Access to the site shall be restricted by an effective barrier designed to prevent unauthorized entry and dumping.

6. Litter, Dust & Fire Protection: The landfill shall have litter control devices, dust controls, fire protection and fire-fighting facilities. Litter is to be picked up and litter control devices are to be cleaned with the litter placed in the active cell.

7. Safety Devices: Safety devices shall be provided on equipment to shield and protect the operators from potential hazards during operation.

8. Equipment Breakdown: In the event of equipment malfunction, destruction, breakdown or other problems resulting in the permittee being temporarily unable to comply with any of the conditions of this permit, the Department is to be immediately notified by the permittee as to the cause, what steps are being taken to correct the problem and prevent its recurrence, as required by Rule 62-4.130, F.A.C.

9. Effluent Discharge: There shall be no discharge of liquid effluents or contaminated runoff to surface or ground water without prior approval from this Department.

10. Surface Water Management: All surface water runoff from the developed portions of the site shall be collected and treated to meet the requirements of Chapters 373 and 403, Florida Statutes (F.S.) prior to discharge off-site. The surface water management system shall prevent surface water flow into waste filled areas.

11. Stormwater - Leachate Contamination: Stormwater that comes into contact with leachate shall be treated as leachate and any leachate emanating from the landfill shall be collected and treated as necessary to meet the requirements of Chapters 62-302, 62-4 and 62-520, F.A.C., unless the leachate is transmitted to a permitted treatment facility.

12. Stormwater System Maintenance: The stormwater system shall be maintained and visually inspected on a periodic basis and shall be cleaned as necessary to maintain proper operation.

13. Zone of Discharge: The zone of discharge for the facility shall be a three dimensional volume, defined in the vertical plane as extending from the top of the ground to the base of the surficial aquifer, and defined in the horizontal plane as extending 100 feet from the foot print of the waste disposal area or to the property boundary, whichever is less. Class G-II water quality standards must be met at the boundary of the zone of discharge in accordance with Rule 62-522.410, F.A.C.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

14. Quality Assurance: The Construction Quality Assurance (CQA) Plan submitted with the permit application shall be followed for installing and testing the liner system and related components. The CQA engineer or the engineer's designee shall be on-site at all times during construction of the liner systems to monitor the construction activities including the preparation of the subgrade, placement of the GCL, primary and secondary liners, and the placement of the soil drainage layer over the primary liner to ensure the underlying geosynthetics are not damaged during construction.

15. Supervision: A registered engineer qualified to practice in Florida shall supervise and evaluate the liner installation quality assurance/quality control program to ensure that the liner meets design specifications. Upon completion, the engineer shall submit a summary report to the Department as to the complete conformity to the plans and specifications as approved. This summary report shall include a documented control program of the liner installation, liner inspections and the quality assurance/quality control testing procedures and laboratory analyses. This report shall be included with the certification required in Specific Condition 22 of this permit.

16. Base: Prior to the liner installation, the subgrade shall be prepared to provide a firm unyielding foundation and if necessary, the base shall be brought up to grade by placement and compaction of fill material. The fill material and subgrade shall not contain rocks, roots, debris, shells, or other materials that could penetrate the liner material.

17. Liner: The liner system consists of a double-composite liner. The liner system, from top to bottom, consists of: 2 foot thick protective soil layer, primary geocomposite drainage layer, 60-mil thick primary HDPE textured geomembrane, primary geosynthetic clay liner (GCL), secondary geocomposite drainage layer, 60-mil thick HDPE secondary textured geomembrane, secondary GCL, and compacted subgrade.

18. Liner Installation: Installation of the liner shall be performed by an experienced installer who has installed similar type materials. The permittee shall notify the Department at least 10 days prior to the commencement of liner installation work in any cell.

19. GCL Installation Limitation: The number of geosynthetic clay liner (GCL) panels that may be deployed in any one day shall be limited to the number that can be placed in a dry condition and covered by the HDPE while still dry. No installation or seaming of GCL under wet conditions shall be allowed. The CQA plan requires the owner's inspector to inspect the subgrade each day prior to placing the GCL.

20. Geomembrane Testing: Non-destructive air pressure tests and/or vacuum test shall be conducted by the installer under the direction of the CQA engineer or his designee to test 100 percent of the field seams of the geomembrane. Destructive tests of the geomembrane field seams shall be in accordance with the approved CQA plan and at a frequency no less than one destructive test sample every 500 linear feet of field seam.

21. Construction Permit Renewal: The construction shall reasonably conform to the plans and supporting documents submitted as part of the application. If construction can not be completed before the expiration of this permit, the permittee must notify the Department, in writing, at least 60 days prior to the expiration of the construction permit and request a renewal of the construction permit.

22. Certification: After all significant initial construction has been completed, and prior to acceptance of any solid waste, the engineer of record shall complete a Certificate of Construction Completion, DEP Form 62-701.900(2), then contact the Department to arrange for Department representatives to inspect the facility in the company of the permittee, the engineer and the proposed on-site facility operator.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

23. Solid Waste Disposal: The landfill shall not receive solid waste until the leachate collection system is in place and functional and Specific Conditions 15, 22 and 25 are satisfied.

24. Liner Edge Staking: The edge of the liner must be clearly and permanently marked or outlined by staking or other means so that solid waste is deposited at least 10 feet back from the edge of the liner.

25. Monitoring Plan Implementation Schedule: The Monitoring Plan Implementation Schedule attached as Exhibit I, is made a part of this permit. All wells shall be in place and sampled prior to placement of waste into the newly constructed cell.

26. Solid Waste Burning: Burning of solid waste is prohibited except as provided by Rule 62-701.300(3), F.A.C. Any unauthorized fires involving solid waste at the landfill must be reported to the Department within 5 days by letter explaining the cause, remedial action and measures taken to prevent a recurrence.

27. Improper Operations: When the Department, after investigation, has good reason (such as complaints, questionable maintenance of equipment, improper operations, etc.) to believe that any applicable standard contained in Chapter 62-701, F.A.C. or in this permit is being violated, it may require the owner or operator of the source to identify the nature of the problem and to submit a report to the Department on the results of the investigation and corrective action taken to prevent its recurrence.

28. Operation of Pollution Control Devices: The leachate and stormwater control systems shall be properly operated, monitored and maintained (Rule 62-701.500, F.A.C.) A record shall be kept of the amount of leachate collected, the date the leachate was taken offsite for disposal, and the identity of the wastewater treatment facility where the leachate was disposed.

29. Leachate Collection and Removal System: The primary leachate collection and removal system lying above the upper geomembrane shall be designed to limit the leachate head to one foot above the liner during routine landfill operations after placement of initial cover, except in sumps and leachate collection trenches.

30. Leachate Storage Tanks: The integrity of the leachate storage tanks and containment facilities shall be checked on a weekly basis so that no leachate releases to the soils will occur. The storage tanks and containment facilities shall be maintained and operated in accordance with Rule 62-701.400(6), F.A.C.

31. Precipitation Records: A recording rain gauge shall be operated and maintained to record precipitation at the landfill. Precipitation records shall be maintained and used by the permittee to compare with leachate generation rates.

32. Hazardous Wastes: Any incidental hazardous wastes received in connection with operation of this facility must be disposed of in accordance with Rule 62-730, F.A.C.

33. Control of Nuisance Conditions: The operating authority shall be responsible for the control of odors and fugitive particulates arising from this operation. Such controls shall prevent the creation of nuisance conditions that may arise from adverse odors on adjacent or nearby properties and users. Complaints received from the general public shall be immediately investigated by the permittee and where warranted, corrective action taken to abate the adverse odor.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

34. Operations Plan: An operations plan prepared by the engineer of record shall be kept at the landfill. The operations plan shall include the sequence of filling, compaction, placement of cover, day to day operations, etc. The landfill operator shall be trained and knowledgeable about the plan.

35. Initial Waste Placement: The first layer of waste placed above the liner and leachate collection system shall be a minimum of four feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system.

36. Initial Cover Stockpile: An adequate supply of acceptable initial cover, as specified in the operations plan, shall be maintained at the landfill and be available at all times. All stockpiles shall be graded to minimize erosion potential. Silt fences or diversion berms shall be utilized around the stockpiles to control erosion.

37. Waste Compaction & Working Face: Except for the placement of the initial layer of waste, all solid waste shall be spread in layers of approximately two (2) feet in thickness and compacted to approximately one (1) foot in thickness or as thin a layer as practical before the next layer is applied. All compacted solid waste shall be formed into cells with the working face and the side grades above land surface at a slope no greater than three feet horizontal to one foot vertical rise. The working face shall be only large enough to efficiently accommodate vehicles discharging waste.

38. Initial Cover and Intermediate Cover: Initial cover shall be applied at the end of each working day except the working face may be covered with temporary cover if solid waste will be placed on it within 18 hours. 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 tarpaulin, that may be removed prior to the placement of additional waste. An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion. All or part of the intermediate cover may be removed prior to placing additional waste or installing final cover.

39. Final Cover - Top: In descending order, the final cover system on the top (5 percent) slopes of the landfill shall consist of: 0.5 ft. thick vegetative layer, 1.5 ft. thick protective soil layer, 40-mil thick smooth polyethylene (PE) geomembrane, and 1-ft. thick (minimum) intermediate cover layer over the compacted waste.

40. Final Cover - Side Slopes: The final cover system on the 4H:1V side slopes of the landfill from top to bottom shall consist of: 0.5 -ft. thick vegetative layer, 1.5 - ft. thick protective layer, a geocomposite drainage layer, a 40-mil thick textured PE geomembrane, and a 1 - ft. thick (minimum) intermediate cover layer over the compacted waste.

41. Erosion Minimization: Erosion of the final cover system shall be minimized by final cover swales. The swales shall intercept sheet flow from the final cover system. The final cover swales shall direct the collected surface-water runoff to downchutes and the perimeter swale. A vegetative cover placed on the final cover slopes of the landfill will minimize erosion and reduce loss from the final cover system. The final cover system shall be periodically inspected and erosion damage or vegetative stress shall be repaired before significant erosion develops.

42. Side Slopes: The side slopes shall not be steeper than 4 horizontal to 1 vertical and, when the final cover is installed, shall be sodded to minimize erosion.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

43. Final Cover Surface Gradient: The top gradient of the final cover surface will have a gradient of 5 percent and shall take into consideration the effects of expected subsidence caused by settling and decomposition of the fill material to minimize ponding and erosion.

44. Routine Maintenance: Cracks or eroded sections in the surface of any filled and covered area shall be properly repaired and a regular maintenance program shall be followed to eliminate pockets or depressions that may develop as refuse settles. The slopes and drainage structures shall be inspected at least monthly and after major storm events for evidence of settling, erosion, washout or siltation.

45. Gas Monitoring: The permittee shall implement a gas management system to comply with Rule 62-701.530, F.A.C.

46. Landfill Elevation: The final (maximum) elevation of the Oak Hammock Disposal, Class I landfill, shall not exceed 178 feet NGVD.

47. Operation Training Compliance: The Oak Hammock Disposal, Class I landfill shall comply with Rule 62-701.320(15), F.A.C. - Operator training.

48. Operations Report: An operations report shall be submitted to the Department on a quarterly basis. Reports shall include the following:

DRAFT

a) types of solid waste received, and
b) quantities of solid waste received.

All submittals in response to this specific condition shall be submitted to: Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, with a copy to: Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

49. Operation Permit Renewal: An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit. (Rule 62-4.090, F.A.C.).

50. Closure Permit Requirements: At least 90 days prior to the date when wastes will no longer be accepted, the owner or operator shall submit a closure permit application to the Department.

51. Solid Waste Disposal Rate: The average solid waste disposal rate for this source is 1700 tons per day as stated in the application. Actual operating rates may vary depending upon business conditions.

52. Substantial Changes or Revisions: The Department shall be notified and approval obtained prior to executing any substantial changes or revisions to the construction and operation authorized by this permit.

53. Financial Responsibility: The permittee shall maintain financial assurance in accordance with the requirements of Rule 62-701.630, F.A.C. Proof that the financial mechanisms are established and funded in accordance with Rule 62-701.630, F.A.C. and 40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, F.A.C. shall be submitted to the Department sixty (60) days prior to the acceptance of any solid waste at the facility. All submittals in response to this specific condition shall be sent to: Department of Environmental Protection, Financial Coordinator, Solid Waste Section, Twin Towers Office Building, 2600 Blair Stone Road, MS-4565, Tallahassee, Florida 32399-2400, **with a copy to:** Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

PERMITTEE: Omni Waste of Osceola County, LLC

Attention: Mr. Timothy J. Salopek

Permit/Certification Numbers:
SC49-0199726-001 & SO49-0199726-002
Date of Issue:
Expiration Date: 8/28/2007

SPECIFIC CONDITIONS:

54. Annual Cost Estimates and Financial Instrument Adjustments: The permittee shall, in addition to annually adjusting the closure and long-term care cost estimates, adjust the financial assurance mechanism to reflect an increase in cost estimates. Cost estimate adjustments shall be in accordance with Rule 62-701.630(4), F.A.C. Instrument adjustments shall be in accordance with Rule 62-701.630, F.A.C. and 40 CFR Part 264, Subpart H as adopted by reference in Rule 62-701.630, F.A.C. Documentation of financial mechanism increases shall be submitted to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, Twin Towers Office Building, 2600 Blair Stone Road, MS-4565, Tallahassee, Florida 32399-2400. All estimate update submittals shall be sent to: Department of Environmental Protection, Central District, Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

55. Prevention of Significant Deterioration (PSD) Requirements: The landfill owner or operator is not required to obtain any air construction permit unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. A landfill for which construction or modification is subject to PSD requirements must make application to the Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.

56. Title V Permit Requirements: The landfill owner or operator is not required to obtain any air operating permit unless the landfill is required to obtain a Title V air operating permit (Title V permit) pursuant to Section 403.0872, F.S. A landfill is required to obtain a Title V permit if the landfill (or the total facility, if the landfill is contiguous or part of a larger facility) has the potential to emit 10 TPY of any hazardous air pollutant, 25 TPY of any combination of hazardous air pollutants or 100 TPY of any other regulated air pollutant. A landfill is also required to obtain a Title V permit if the maximum design capacity as defined in 40 CFR 60, Subpart WWW, is equal or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, F.A.C. and Chapter 62-213, F.A.C. Title V applications shall be submitted to the Central District Air Program Administrator.

57. 40 CFR 60 Requirements: The permittee shall comply with the applicable requirements of 40 CFR 60, Subparts WWW and Cc, as adopted by reference at Rule 62-204.800, F.A.C. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

ISSUED _____
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

DRAFT

_____
Vivian F. Garfein
Director, Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803

EXHIBIT I

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

WACS FACILITY ID: 89455

MONITORING PLAN IMPLEMENTATION SCHEDULE

GENERAL

1. The permittee must install all monitoring wells and collect the initial ground-water quality samples in accordance with this Monitoring Plan prior to any waste being accepted by the facility.

2. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with **Chapter 62-160 Florida Administrative Code (F.A.C.)**. Approved methods as published by the Department or as published in Standard Methods, ASTM, or EPA Methods shall be used.

3. The organization collecting samples at this site must use the Field and Laboratory Standard Operating Procedures (DEP-SOP-001/01 and DEP SOP-002/01) in Chapter 62-160, F.A.C. Sampling personnel must have a copy of the SOP for purging and sampling in the field when sampling and must be knowledgeable of its contents, procedures, and forms. The laboratory designated to conduct the chemical analyses must be certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP). This Certification must be for the test method and analyte(s) that are reported.

4. If, at any time, analyses show that ground water standards or minimum criteria are exceeded in the detection wells or at the edge of the Zone of Discharge, the Permittee shall resample the wells within thirty (30) days after the sampling data are received, to confirm the data. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data are confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring in accordance with Rule 62-701.510(7) F.A.C.

5. The Department must be notified in writing at least fourteen (14) days prior to the installation and/or sampling of any monitoring well(s).

GROUND WATER QUALITY MONITORING

6. The forty-five (45) ground water monitoring wells designated for water quality testing are listed on Attachment A and are shown on Attachment B. The piezometers intended to be used for water level measurements are shown on Attachment C (Note:

Landfill cells 1-4 will be constructed over piezometers DP-1, DP-2, DP-3 and DP-4 and these piezometers will be properly abandoned during site preparation activities).

NOTE: Unless otherwise approved by the Department, wells with high turbidities must be remediated or reinstalled to reduce the turbidity value to less than 20 NTU's prior to sample collection. Should any ground water sample exhibit dissolved oxygen concentrations greater than 20% of oxygen saturation at the field measured temperature, the sampled well must be repurged then resampled as soon as an acceptable dissolved oxygen value has been attained unless it can be demonstrated that insitu ground water contains higher levels of dissolved oxygen. All water quality analyses will be performed on unfiltered samples unless approved by the Department.

7. The initial samples collected from the forty-five (45) ground water monitoring wells shall be analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), total ammonia as N, chlorides, nitrate, total dissolved solids, iron, mercury, sodium, and the EPA 40 CFR, Part 258, Appendix I and Appendix II parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria for ground water quality** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

8. Samples from the forty-five (45) ground water monitoring wells shall be collected semi-annually and analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), total ammonia as N, chlorides, nitrate, total dissolved solids, iron, mercury, sodium, and the EPA 40 CFR, Part 258, Appendix I parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria for ground water quality** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

9. Ground water levels in all wells, whether sampled or not, and all piezometers must be measured to the nearest 0.01 foot and reported semiannually unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements must be referenced to the National Geodetic Vertical Datum of 1929 (NGVD).

SURFACE WATER MONITORING

10. The two (2) surface water sites included in this monitoring plan are SW-3 and SW-4. They are listed on Attachment A and shown on Attachment D. Surface water samples should be collected during the semiannual ground water sampling events; however, no surface water sample will be collected during a semiannual sampling event in which the Bull Creek is not flowing. This does not preclude the permittee, however,

from voluntarily sampling the creek on an irregular frequency during the rainy season, or at other times, when there is flow in Bull Creek.

11. The initial samples from two (2) surface water monitoring sites shall be collected and analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), unionized ammonia (NH_3), total hardness as $CaCO_3$, total organic carbon, total dissolved solids, total suspended solids, biochemical oxygen demand (5 day), chemical oxygen demand, total nitrogen as N, nitrate as N, total phosphates as P, chlorophyll A, iron, mercury, and the EPA 40 CFR, Part 258, Appendix I parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

12. Samples from the two (2) surface water monitoring sites shall be collected semi-annually and analyzed as follows: temperature (field), dissolved oxygen (field), pH (field), specific conductance (field), turbidity (field), unionized ammonia (NH_3), total hardness as $CaCO_3$, total organic carbon, total dissolved solids, total suspended solids, biochemical oxygen demand (5 day), chemical oxygen demand, total nitrogen as N, nitrate as N, total phosphates as P, chlorophyll A, iron, mercury, and the EPA 40 CFR, Part 258, Appendix I parameters. **All analyses must use detection limits at or below state standards and/or minimum criteria** unless dilution of the sample is necessary due to high contaminant concentrations or the Method Detection Limit using the most sensitive and currently available technology is higher than a specific criterion, in which case the practical quantitation limit must be used.

13. Surface water elevations at sampling locations SW-3 and SW-4 must be measured to the nearest 0.01 foot on the same day as ground water levels in the wells and piezometers and reported semiannually unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements must be referenced to NGVD.

DRAFT

LEACHATE QUALITY MONITORING

14. The sites designated for leachate quality testing are L-1, L-2, L-3 and L-4. The sites are listed on Attachment A and shown on Attachment B.

15. Samples from the leachate monitoring sites shall be collected annually and analyzed for dissolved oxygen (field), pH (field), specific conductance (field) total ammonia as N, bicarbonate, chlorides, nitrate, total dissolved solids, iron, mercury, sodium and the EPA 40 CFR, Part 258, Appendix II parameters. **All analyses must use detection limits at or below 40 CFR Part 261.24 standards.**

MONITORING WELL REQUIREMENTS

16. If a monitoring well becomes damaged or inoperable, the Permittee shall notify the Department in writing within seven (7) days. The written report shall describe what problem has occurred and the remedial measures that have been taken to prevent a recurrence. The Department can require the replacement of inoperable monitoring wells.

17. New or replacement monitoring well design or placement must be approved by the Department. Proposed well construction details based on site specific borings must be submitted with all supporting data (grain size distribution analyses, in-situ hydraulic conductivity testing, depth to water, etc.) for Department approval prior to well installation. Use of hollow stem auger equipment is recommended. Other drilling methods must be approved by the Department prior to well installation.

18. All wells shall be clearly and permanently labeled and the well site maintained so that the well is visible at all times. Protective barriers must be installed at all wells which may be subject to damage by heavy equipment or traffic.

19. An abandonment plan for abandoning any well which is unsuitable for ground water monitoring must be approved by the Department prior to abandonment.

REPORTING REQUIREMENTS

GENERAL

20. Well completion reports for new monitoring wells must be submitted to the Department on the attached Ground Water Monitoring Well Completion Report Form thirty (30) days after installation. Note that the top of casing elevation of each well, to an accuracy of 0.01 feet, and the latitude and longitude of each well in degrees, minutes and seconds, to two (2) decimal places, with an accuracy of 15 feet, must be determined and certified by a Florida Registered Surveyor and provided on the form. In addition, as-built well construction diagrams and soil boring logs that cover the entire depth of the monitoring well(s) must be submitted to the Department.

21 A drawing must be submitted within sixty (60) days following monitoring well installation showing the location of all monitoring wells (active and abandoned), water bodies and waste filled areas. The location of features on the drawing must be horizontally and vertically located by standard surveying techniques. The drawing shall include all monitoring well locations, each monitoring well name and identification (WACS) number, the top of casing, pad elevation, permanent benchmark(s) and/or corner monument marker(s) referenced to NGVD with an accuracy of 0.01 feet. The survey shall be conducted and certified by a Florida Registered Surveyor.

22. A total depth measurement must be made on all wells at time of permit renewal. This measurement is to be reported as total apparent depth below ground surface and should be compared to the original total depth of the well.

SEMI-ANNUALLY

23. The required monitoring results must be submitted to the Department within thirty (30) days of receipt from the laboratory. These data shall be accompanied by a Ground Water Monitoring Report form (FDEP Form 62-522.900(2). A copy of this form is attached. The monitoring reports shall include all the parameters described above.

There are two options for reporting monitoring results.

1. Paper Reporting: Parameter Report Forms FDEP Forms 62-522.900(2) are attached for reporting semi-annual analyses. In order to facilitate entry of this data into the State computer system, these forms or exact replicas must be used and must not be altered as to content. The original copies of the forms should be retained so that the necessary information is available to properly complete future reports.

2. Electronic Reporting: The monitoring data may be submitted electronically on floppy diskettes or compact disc media readable by a Microsoft Windows computer. The Department may use electronic-tools (e.g. Validator) to conduct data quality review and compliance checking. Electronic laboratory data must be submitted in a specific format called a tab-delimited text file with the first line of the file being the data field names. (Note: Microsoft Excel produces this file format when the "Save As" and "Text (Tab Delimited)" options are selected.) The following data fields must be present in the data:

- Analytical Method
- Date of Analysis
- Date of Preparation (if applicable)
- Date of Sampling
- Detection Limit of the Analysis
- DOH Certification Number of the Laboratory
- Matrix (Aqueous, Drinking Water, Saline/Estuarine, or Solids)
- Analytical Result
- Appropriate Data Qualifiers (as listed in Florida Administrative Code 62-160)
- Analytical Result Units
- WACS Testsite ID
- Parameter Name (Name of the Compound Analyzed for/Test Performed)
- STORET Parameter Code (as provided by the Department's Bureau of Solid and Hazardous Waste; must be six digits: e.g. 039430 for Isodrin)

All dates are to be submitted in MM/DD/YYYY HH:MI:SS format (e.g. 05/14/1973 17:18:00 for May 14, 1973, 5:18:00 p.m.). A sample of an acceptable data format will be posted to the Bureau of Laboratories web site, http://www.floridadep.org/labs/software

The submittal shall also include laboratory reports, Chain of Custody sheets, field data sheets, Water Sampling Logs (attached), ground water contour maps, a summary of any water quality standards or minimum criteria that are exceeded and any other

required documents. These reports may be submitted electronically in portable document format (PDF) in lieu of a paper copy. If a specific document has a requirement to be signed and sealed, an original signed and sealed paper copy must also be submitted unless it is specifically permitted by law or rule to be signed electronically.

Please note that the Department of Environmental Protection's (DEP's) new Standard Operating Procedures for Field Activities, DEP-SOP-001/01, January 01, 2002, become effective on April 9, 2002. The revised protocols, including those for ground water sampling (FS2200), can be accesses at the DEP's Internet address http://www.dep.state.fl.us/labs/qa/sops.htm

24. Water levels in all monitoring wells, whether sampled or not, and all surface water sites must be measured to the nearest 0.01 foot and reported semi-annually unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements should be reported in a table that includes well or surface water point name, date water level measured, measuring point elevation referenced to NGVD, depth to water and calculated water level elevation referenced to NGVD.

25. A ground water elevation contour map for each monitored aquifer zone must be submitted semi-annually to the Department. Ground water elevation contour map(s) should include monitoring well locations, ground water elevation at each monitoring well location referenced to NGVD, a bar scale, ground water contour interval, date of measurement and ground water flow direction. The map(s) must incorporate adjacent and on-site surface water elevations where appropriate. These maps shall be signed and sealed pursuant to Florida Statutes (F.S.) Chapters 471 and 492 which require that documents requiring the practice of professional engineering or professional geology, as described in Chapter 471 or 492, F.S., be signed and sealed by the professional(s) who prepared or approved them. This certification must be made by a registered professional who is able to demonstrate competence in this subject area.

BIENNIALLY

26. A technical report shall be submitted to the Department every two years, and shall be updated at the time of permit renewal. The report shall summarize and interpret the water quality data and water level measurements collected during the past four years. The report shall contain, at a minimum, the following:

a. Tabular and graphical displays of any data which shows that a monitoring parameter has been detected, including hydrographs for all monitoring wells.
b. Trend analyses of any monitoring parameters detected.
c. Comparisons among shallow, middle, and deep zone wells.
d. Comparison between upgradient and downgradient wells.
e. Correlation between related parameters such as total dissolved solids and specific conductance.
f. Discussion of erratic and/or poorly correlated data.

g. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates.

h. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

This report must be signed and sealed pursuant to Florida Statutes (F.S.) Chapters 471 and 492 which require that documents requiring the practice of professional engineering or professional geology, as described in Chapter 471 or 492, F.S., be signed and sealed by the professional(s) who prepared or approved them. This certification must be made by a registered professional who is able to demonstrate competence in the subject area(s) addressed within the sealed document.

DRAFT

ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL
WACS FACILITY ID: 89544
MONITORING SITES

TESTSITE SITE NAME	WACS TESTSITE ID	TYPE	ZONE/LOCATION MONITORED
GROUND WATER			
MW-1A	19900	B	UPPER SURFICIAL
MW-1B	19901	B	INTERMEDIATE SURFICIAL
MW-1C	19902	B	DEEP SURFICIAL
MW-2A	19903	B	UPPER SURFICIAL
MW-2B	19904	B	INTERMEDIATE SURFICIAL
MW-2C	19905	B	DEEP SURFICIAL
MW-3A	19906	B	UPPER SURFICIAL
MW-3B	19907	B	INTERMEDIATE SURFICIAL
MW-3C	19908	B	DEEP SURFICIAL
MW-4A	19909	B	UPPER SURFICIAL
MW-4B	19910	B	INTERMEDIATE SURFICIAL
MW-4C	19911	B	DEEP SURFICIAL
MW-5A	19912	B	UPPER SURFICIAL
MW-5B	19913	B	INTERMEDIATE SURFICIAL
MW-5C	19914	B	DEEP SURFICIAL
MW-6A	19915	B	UPPER SURFICIAL
MW-6B	19916	B	INTERMEDIATE SURFICIAL
MW-6C	19917	B	DEEP SURFICIAL
MW-7A	19918	C	UPPER SURFICIAL

ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL
WACS FACILITY ID: 89544
MONITORING SITES

TESTSITE SITE NAME	WACS TESTSITE ID	TYPE	ZONE/LOCATION MONITORED
MW-7B	19919	C	INTERMEDIATE SURFICIAL
MW-7C	19920	C	DEEP SURFICIAL
MW-8A	19921	C	UPPER SURFICIAL
MW-8B	19922	C	INTERMEDIATE SURFICIAL
MW-8C	19923	C	DEEP SURFICIAL
MW-9A	19924	C	UPPER SURFICIAL
MW-9B	19925	C	INTERMEDIATE SURFICIAL
MW-9C	19926	C	DEEP SURFICIAL
MW-10A	19927	C	UPPER SURFICIAL
MW-10B	19928	C	INTERMEDIATE SURFICIAL
MW-10C	19929	C	DEEP SURFICIAL
MW-11A	19930	C	UPPER SURFICIAL
MW-11B	19931	C	INTERMEDIATE SURFICIAL
MW-11C	19932	C	DEEP SURFICIAL
MW-12A	19933	C	UPPER SURFICIAL
MW-12B	19934	C	INTERMEDIATE SURFICIAL
MW-12C	19935	C	DEEP SURFICIAL
MW-13A	19936	C	UPPER SURFICIAL
MW-13B	19937	C	INTERMEDIATE SURFICIAL
MW-13C	19938	C	DEEP SURFICIAL

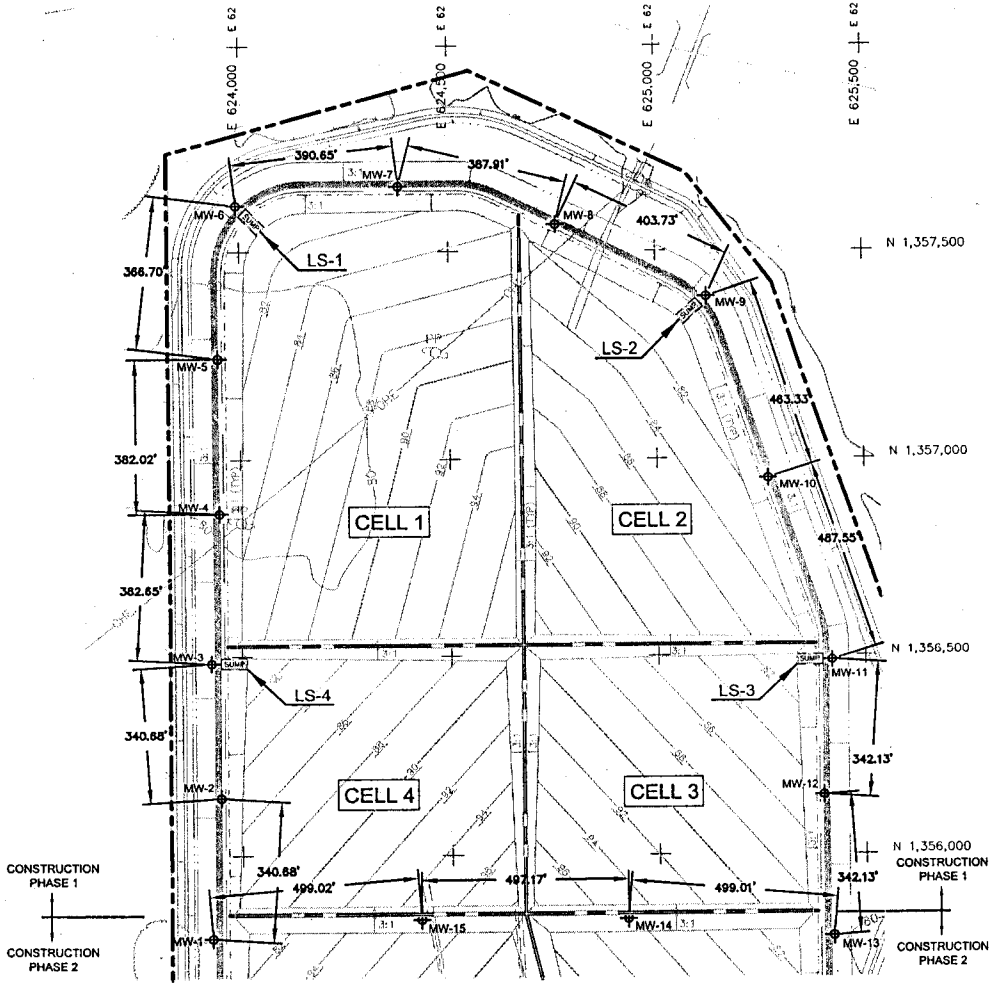
ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL
WACS FACILITY ID: 89544
MONITORING SITES

TESTSITE SITE NAME	WACS TESTSITE ID	TYPE	ZONE/LOCATION MONITORED
MW-14A	19939	C	UPPER SURFICIAL
MW-14B	19940	C	INTERMEDIATE SURFICIAL
MW-14C	19941	C	DEEP SURFICIAL
MW-15A	19942	C	UPPER SURFICIAL
MW-15B	19943	C	INTERMEDIATE SURFICIAL
MW-15C	19944	C	DEEP SURFICIAL
SURFACE WATER			
SW-3	19945	C	DOWN STREAM ON BULL CREEK
SW-4	19946	B	UP STREAM NW OF SITE
LEACHATE			
L-1	19947	C	CELL 1 PRIMARY RISER
L-2	19948	C	CELL 2 PRIMARY RISER
L-3	19949	C	CELL 3 PRIMARY RISER
L-4	19950	C	CELL 4 PRIMARY RISER

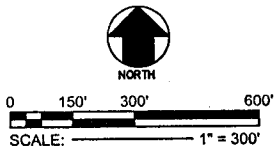
DRAFT

ATTACHMENT B



PHASE 1 GROUNDWATER MONITORING WELL AND LEACHATE SAMPLING LOCATION LAYOUT

SCALE: 1" = 300'



WELL	Northing	Easting
MW-1	1355801.76	623927.76
MW-2	1356141.76	623949.18
MW-3	1356481.70	623926.60
MW-4	1356863.75	623947.95
MW-5	1357245.77	623947.30
MW-6	1357609.65	623992.77
MW-7	1357655.74	624380.68
MW-8	1357563.00	624757.34
MW-9	1357390.93	625122.57
MW-10	1356950.48	625266.36
MW-11	1356487.15	625418.09
MW-12	1356145.69	625396.67
MW-13	1355804.30	625419.26
MW-14	1355846.36	624922.02
MW-15	1355845.51	624424.85

LEGEND

MW-1 GROUNDWATER MONITORING WELL LOCATION.

AT EACH LOCATION A GROUP OF THREE WELLS WILL BE DRILLED TO SHALLOW (MW-1a), INTERMEDIATE (MW-1b), AND DEEP (MW-1c) ELEVATIONS. THESE WELLS WILL BE SPACED 5 FEET APART AND ARRANGED PARALLEL TO THE PERIMETER MAINTENANCE ROAD OR INTERCELL BERM ALIGNMENTS.

LS-1 LEACHATE SAMPLE LOCATION

LEACHATE SAMPLES WILL BE OBTAINED FROM THE PRIMARY LEACHATE SUMP.

NOTES:

1. NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)(FEET).
3. PHASE I REPRESENTS LANDFILL DEVELOPMENT IN THE FIRST 5 YEARS OF OPERATION.

GeoSyntec Consultants
TAMPA, FLORIDA

PROJECT NO.	FW0400	FIGURE NO.	RFI-1
DATE.	7 JUNE 02	FILE NO.	0400F0057

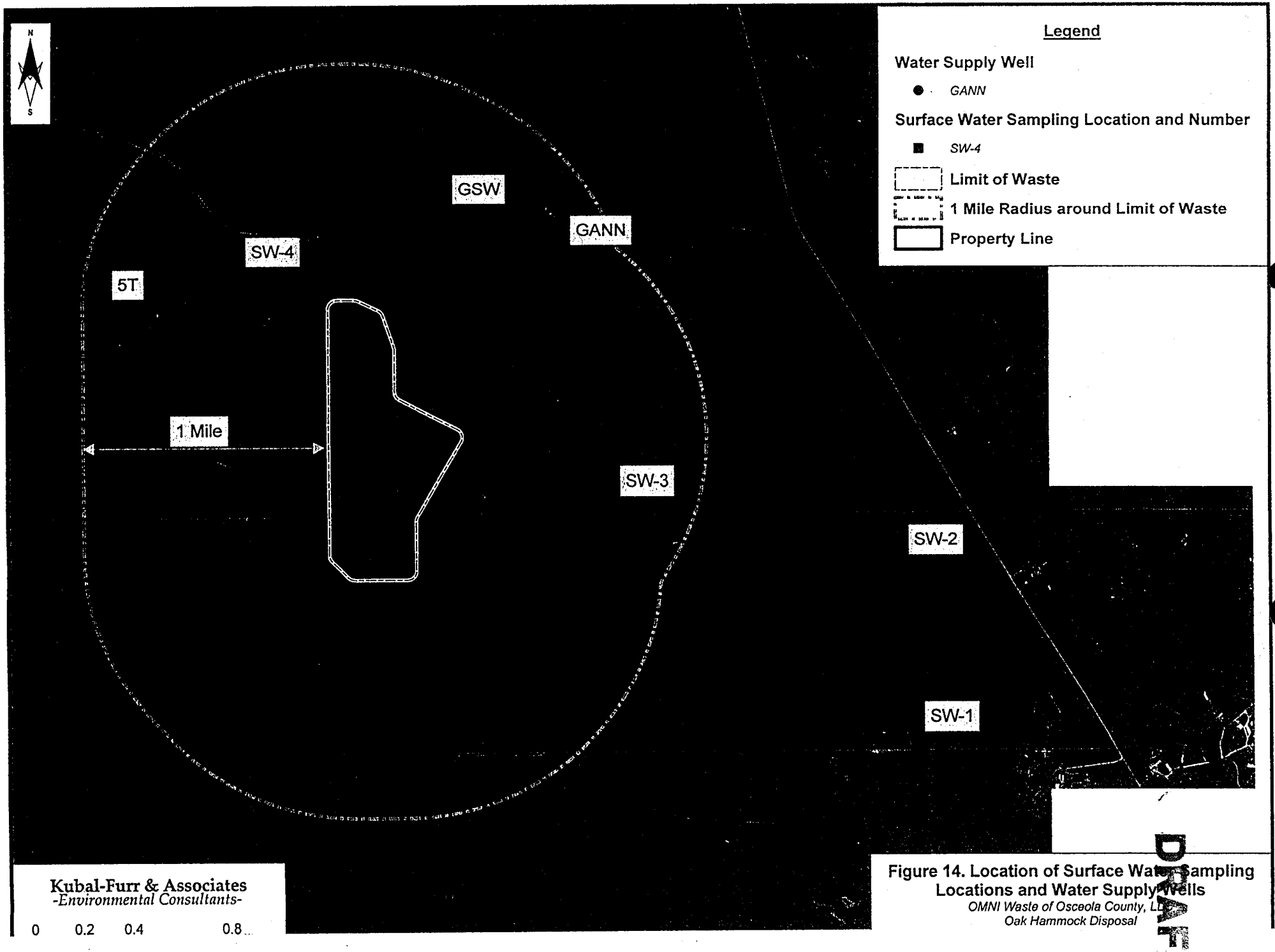


Figure 14. Location of Surface Water Sampling Locations and Water Supply Wells
OMNI Waste of Osceola County, LLC
Oak Hammock Disposal

ATTACHMENT D

DRAFT

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 1 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
00010	Temperature (field)					°C	
00299	Dissolved Oxygen (field by probe)					mg/L	
00406	pH (field)					STD	
00094	Spec. Conductance (field)					umhos/cm	
82078	Turbidity (field)					NTU's	
00610	Total Ammonia as N					mg/L	
00940	Chlorides					mg/L	
00620	Nitrate as N					mg/L	
70300	Total Dissolved Solids					mg/L	
00440	Bicarbonate as HCO_3					mg/L	
	METALS						
01097	Antimony					ug/L	
01002	Arsenic					ug/L	
01007	Barium					ug/L	
01012	Beryllium					ug/L	
01027	Cadmium					ug/L	
01034	Chromium					ug/L	
01037	Cobalt					ug/L	
01042	Copper					ug/L	
01045	Iron					ug/L	
01051	Lead					ug/L	
71900	Mercury					ug/L	
01067	Nickel					ug/L	
01147	Selenium					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 2 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
01077	Silver					ug/L	
00929	Sodium					mg/L	
01059	Thallium					ug/L	
01102	Tin					ug/L	
01087	Vanadium					ug/L	
01092	Zinc					ug/L	
	ORGANIC CONSTITUENTS						
34205	Acenaphthene					ug/l	
34200	Acenaphthylene					ug/l	
81552	Acetone					ug/L	
76997	Acetonitrile; Methyl cyanide					ug/L	
81553	Acetophenone					ug/L	
73501	2-Acetylaminofluorene; 2-AAF or Acetamide,N-(9H-Fluoren-2yl)-					ug/L	
34210	Acrolein					ug/L	
34215	Acrylonitrile					ug/L	
39330	Aldrin					ug/L	
78109	Allyl chloride					ug/L	
77581	4-Aminobiphenyl					ug/L	
34220	Anthracene					ug/l	
34030	Benzene					ug/L	
34526	Benzo(a)anthracene					ug/l	
34230	Benzo(b)fluoranthene					ug/L	
34242	Benzo(k)fluoranthene					ug/l	
34247	Benzo(a)pyrene					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 3 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34521	Benzo(g,h,i)perylene					ug/l	
77147	Benzyl alcohol					ug/l	
39337	alpha-BHC					ug/L	
39338	beta-BHC					ug/L	
46323	delta-BHC					ug/L	
39340	gamma-BHC; Lindane					ug/L	
34273	Bis(2-chloroethyl)ether					ug/l	
34278	Bis(2-chloroethoxy)methane					ug/l	
34283	Bis (2-chloro-1-methylethyl) ether or propane, 2,2'-oxybis(1-chloro)- or Bis(2-chloroisopropyl) ether					ug/L	
39100	Bis(2-ethylhexyl)phthalate					ug/l	
73085	Bromochloromethane					ug/L	
32101	Bromodichloromethane					ug/L	
32104	Bromoform					ug/L	
34636	4-Bromophenyl phenyl ether					ug/l	
34292	Butyl benzyl phthalate					ug/L	
77041	Carbon Disulfide					ug/L	
32102	Carbon Tetrachloride					ug/L	
39350	Chlordane					ug/L	
73529	p-Chloroaniline					ug/L	
34301	Chlorobenzene					ug/L	
39460	Chlorobenzilate					ug/L	
34452	p-chloro-m-cresol					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 4 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34311	Chloroethane					ug/L	
32106	Chloroform					ug/L	
34581	2-Chloronaphthalene					ug/l	
34586	2-Chlorophenol					ug/l	
34641	4-Chlorophenyphenyl ether					ug/l	
81520	Chloroprene					ug/L	
34320	Chrysene					ug/L	
77151	m-Cresol					ug/L	
77152	o-Cresol					ug/L	
77146	p-Cresol					ug/L	
00720	Cyanide					mg/l	
39730	2,4-D; 2,4-Dichlorophenoxyacetic					ug/L	
39360	4,4-DDD					ug/L	
39365	4,4-DDE					ug/L	
39370	4,4-DDT					ug/L	
73540	Diallate					ug/L	
34556	Dibenz(a,h)anthracene					ug/L	
81302	Dibenzofuran					ug/L	
32105	Dibromochloromethane					ug/L	
49146	1,2-Dibromo-3-chloropropane					ug/L	
77651	1,2-Dibromoethane					ug/L	
39110	Di-n-butylphthalate					ug/l	
34536	1,2-Dichlorobenzene					ug/L	
34566	1,3-Dichlorobenzene					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 6 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34606	2,4-Dimethylphenol					ug/l	
34341	Dimethyl phthalate					ug/l	
45622	m-Dinitrobenzene					ug/L	
34657	2-Methyl-4,6-dinitrophenol					ug/l	
34616	2,4-Dinitrophenol					ug/l	
34611	2,4-Dinitrotoluene					ug/l	
34626	2,6-Dinitroltoluene					ug/l	
81287	DNBP (Dinoseb)					ug/L	
34596	Di-n-octyl phthalate					ug/l	
77579	Diphenylamine					ug/L	
81888	Disulfoton					ug/L	
34361	Endosulfan I					ug/L	
34356	Endosulfan II					ug/L	
34351	Endosulfan sulfate					ug/L	
39390	Endrin					ug/L	
34366	Endrin aldehyde					ug/L	
34371	Ethylbenzene					ug/L	
73570	Ethyl methacrylate					ug/L	
73571	Ethyl methanesulfonate					ug/L	
38462	Famphur					ug/L	
34376	Fluoranthene					ug/l	
34381	Fluorene					ug/l	
39410	Heptachlor					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 7 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39420	Heptachlor epoxide					ug/L	
39700	Hexachlorobenzene					ug/l	
34391	Hexachlorobutadiene					ug/l	
34386	Hexachlorocyclopentadiene					ug/L	
34396	Hexachloroethane					ug/l	
73576	Hexachloropropene					ug/L	
34403	Indeno (1,2,3-c,d) pyrene					ug/l	
77033	Isobutyl alcohol					ug/L	
39430	Isodrin					ug/L	
34408	Isophorone					ug/l	
73582	Isosafrole					ug/L	
81281	Kepone					ug/L	
81593	Methacrylonitrile					ug/L	
73589	Methapyrilene					ug/L	
39480	Methoxychlor					ug/L	
34413	Methyl bromide						
77103	Methyl butyl ketone					ug/L	
34418	Methyl chloride					ug/L	
73591	3-Methylcholanthrene					ug/L	
81595	Methyl ethyl ketone					ug/L	
77424	Methyl iodide					ug/L	
81597	Methyl methacrylate					ug/L	
73595	Methyl methanesulfonate					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 8 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background
(D) Detection
(C) Compliance
(O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
77416	2-Methylnaphthalene					ug/L	
39600	Methyl Parathion					ug/L	
77596	Methylene Bromide					ug/L	
34423	Methylene Chloride					ug/L	
81596	Methyl isobutyl ketone					ug/L	
34696	Naphthalene					ug/l	
73599	1,4-Naphthoquinone or 1,4-Naphthalenedione					ug/L	
73600	1-Naphthylamine					ug/L	
73601	2-Naphthylamine					ug/L	
78142	o-Nitroaniline					ug/L	
78300	m-Nitroaniline					ug/L	
30342	p-Nitroaniline or 4-nitro-benzenamine					ug/L	
34447	Nitrobenzene					ug/l	
34591	2-Nitrophenol					ug/l	
34646	4-Nitrophenol					ug/l	
73609	N-Nitrosodi-n-butylamine					ug/L	
73611	N-Nitrosodiethylamine					ug/L	
34438	N-Nitrosodimethylamine					ug/l	
34428	N-Nitrosodipropylamine					ug/l	
34433	N-Nitrosodiphenylamine					ug/l	
73613	N-Nitrosomethylethalamine					ug/L	
73619	N-Nitrosopiperidine					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 9 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)___

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
78206	N-Nitrosopyrrolidine					ug/L	
73622	5-Nitro-o-toluidine					ug/L	
39540	Parathion					ug/L	
77793	Pentachlorobenzene					ug/L	
81316	Pentachloronitrobenzene					ug/L	
39032	Pentachlorophenol					ug/l	
73626	Phenacetin					ug/L	
34461	Phenanthrene					ug/l	
34694	Phenol					ug/l	
73628	p-Phenylenediamine					ug/L	
46313	Phorate					ug/L	
39516	Polychlorinated biphenyls					ug/L	
39080	Pronamide					ug/L	
77007	Propionitrile					ug/L	
34469	Pyrene					ug/l	
77545	Safrole					ug/L	
39760	Silvex; 2,4,5-TP					ug/L	
77128	Styrene					ug/L	
00745	Sulfide					ug/L	
39740	2,4,5-Trichlorophenoxyacetic acid					ug/L	
77734	1,2,4,5-Tetrachlorobenzene					ug/L	
77562	1,1,1,2-Tetrachloroethane					ug/l	
34516	1,1,2,2-Tetrachloroethane					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Initial Ground Water Monitoring (Page 10 of 10)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34475	Tetrachloroethene					ug/L	
77770	2,3,4,6-Tetrachlorophenol					ug/L	
34010	Toluene					ug/L	
77142	o-Toluidine					ug/L	
39400	Toxaphene					ug/L	
34551	1,2,4-Trichlorobenzene					ug/l	
34506	1,1,1-Trichloroethane					ug/L	
34511	1,1,2-Trichloroethane					ug/L	
39180	Trichloroethene					ug/L	
34488	Trichlorofluoromethane					ug/L	
77687	2,4,5-Trichlorophenol					ug/l	
34621	2,4,6-Trichlorophenol					ug/L	
77443	1,2,3-Trichloropropane					ug/L	
73652	0,0,0-Triethyl phosphorothioate					ug/L	
73653	sym-Trinitrobenzene					ug/L	
77057	Vinyl Acetate					ug/L	
39175	Vinyl Chloride					ug/L	
34020	Xylenes					ug/L	
72020 Or 82545	Elev.(Ft) above mean sealevel Or Water/Sea Level						

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 1 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
00010	Temperature (field)					°C
00299	Dissolved Oxygen (field by probe)					mg/L
00406	pH (field)					STD
00094	Spec. Conductance (field)					umhos/cm
82078	Turbidity (field)					NTU's
00610	Total Ammonia as N					mg/L
00940	Chlorides					mg/L
00620	Nitrate as N					mg/L
70300	Total Dissolved Solids					mg/L
	METALS					
01097	Antimony					ug/L
01002	Arsenic					ug/L
01007	Barium					ug/L
01012	Beryllium					ug/L
01027	Cadmium					ug/L
01034	Chromium					ug/L
01037	Cobalt					ug/L
01042	Copper					ug/L
01045	Iron					ug/L
01051	Lead					ug/L
71900	Mercury					ug/l

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 2 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background
(D) Detection
(C) Compliance
(O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
01067	Nickel					ug/L
01147	Selenium					ug/L
01077	Silver					ug/L
00929	Sodium					mg/L
01059	Thallium					ug/L
01087	Vanadium					ug/L
01092	Zinc					ug/L
	ORGANIC CONSTITUENTS					
81552	Acetone					ug/L
34215	Acrylonitrile					ug/L
34030	Benzene					ug/L
73085	Bromochloromethane					ug/L
32101	Bromodichloromethane					ug/L
34413	Bromomethane					ug/L
32104	Bromoform					ug/L
77041	Carbon Disulfide					ug/L
32102	Carbon Tetrachloride					ug/L
34301	Chlorobenzene					ug/L
34311	Chloroethane					ug/L
32106	Chloroform					ug/L

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 3 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background
(D) Detection
(C) Compliance
(O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
34418	Chloromethane					ug/L
32105	Dibromochloromethane					ug/L
49146	1,2-Dibromo-3-chloropropane					ug/L
77651	1,2-Dibromoethane					ug/L
77596 46361	Methylene Bromide or Dibromomethane					ug/L
34536	1,2-Dichlorobenzene					ug/L
34571	1,4-Dichlorobenzene					ug/L
77268	trans-1,4-Dichloro-2-butene					ug/L
34496	1,1-Dichloroethane					ug/L
34531	1,2-Dichloroethane					ug/L
34501	1,1-Dichloroethene					ug/L
77093	cis-1,2-Dichloroethene					ug/L
34546	trans-1,2-Dichloroethene					ug/L
34541	1,2-Dichloropropane					ug/L
34704	cis-1,3-Dichloropropene					ug/L
34699	trans-1,3-Dichloropropene					ug/L
34371	Ethylbenzene					ug/L
77103	Methyl butyl ketone					ug/L
81595	Methyl ethyl ketone					ug/L
77424	Methyl iodide					ug/L
34423	Methylene Chloride					ug/L

DRAFT

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Semi-Annual Ground Water Monitoring (Page 4 of 4)

WACS FACILITY ID 89544 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ WELL TYPE:_____ (B) Background (D) Detection (C) Compliance (O) Other

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No)_____ Ground Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS
81596	Methyl isobutyl ketone					ug/L
77128	Styrene					ug/L
77562	1,1,1,2-Tetrachloroethane					ug/l
34516	1,1,2,2-Tetrachloroethane					ug/L
34475	Tetrachloroethene					ug/L
34010	Toluene					ug/L
34506	1,1,1-Trichloroethane					ug/L
34511	1,1,2-Trichloroethane					ug/L
39180	Trichloroethene					ug/L
34488	Trichlorofluoromethane					ug/L
77443	1,2,3-Trichloropropane					ug/L
77057	Vinyl Acetate					ug/L
39175	Vinyl Chloride					ug/L
34020	Xylenes					ug/L
72020 Or 82545	Elev.(Ft) above mean sealevel Or Water/Sea Level					

DRAFT

*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 62-522.900(2) Effective April 14, 1994

09/09/02

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 1 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
00010	Temperature (field)					°C	
00299	Dissolved Oxygen (field by probe)					mg/L	
00406	pH (field)					STD	
00094	Spec. Conductance (field)					umhos/cm	
00610	Total Ammonia as N					mg/L	
00940	Chlorides					mg/L	
00620	Nitrate as N					mg/L	
70300	Total Dissolved Solids					mg/L	
00440	Bicarbonate as HCO_3					mg/L	
	METALS						
01097	Antimony					ug/L	
01002	Arsenic					ug/L	
01007	Barium					ug/L	
01012	Beryllium					ug/L	
01027	Cadmium					ug/L	
01034	Chromium					ug/L	
01037	Cobalt					ug/L	
01042	Copper					ug/L	
01045	Iron					ug/L	
01051	Lead					ug/L	
71900	Mercury					ug/L	
01067	Nickel					ug/L	
01147	Selenium					ug/L	
01077	Silver					ug/L	
00929	Sodium					mg/L	
01059	Thallium					ug/L	
01102	Tin					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 2 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
01087	Vanadium					ug/L	
01092	Zinc					ug/L	
	ORGANIC CONSTITUENTS						
34205	Acenaphthene					ug/l	
34200	Acenaphthylene					ug/l	
81552	Acetone					ug/L	
76997	Acetonitrile; Methyl cyanide					ug/L	
81553	Acetophenone					ug/L	
73501	2-Acetylaminofluorene; 2-AAF or Acetamide,N-(9H-Fluoren-2yl)-					ug/L	
34210	Acrolein					ug/L	
34215	Acrylonitrile					ug/L	
39330	Aldrin					ug/L	
78109	Allyl chloride					ug/L	
77581	4-Aminobiphenyl					ug/L	
34220	Anthracene					ug/l	
34030	Benzene					ug/L	
34526	Benzo(a)anthracene					ug/l	
34230	Benzo(b)fluoranthene					ug/L	
34242	Benzo(k)fluoranthene					ug/l	
34247	Benzo(a)pyrene					ug/l	
34521	Benzo(g,h,i)perylene					ug/l	
77147	Benzyl alcohol					ug/l	
39337	alpha-BHC					ug/L	
39338	beta-BHC					ug/L	
46323	delta-BHC					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 3 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39340	gamma-BHC; Lindane					ug/L	
34273	Bis(2-chloroethyl)ether					ug/l	
34278	Bis(2-chloroethoxy)methane					ug/l	
034283	Bis (2-chloro-1-methylethyl) ether or propane, 2,2'-oxybis(1-chloro)- or Bis(2-chloroisopropyl) ether					ug/L	
39100	Bis(2-ethylhexyl)phthalate					ug/l	
73085	Bromochloromethane					ug/L	
32101	Bromodichloromethane					ug/L	
32104	Bromoform					ug/L	
34636	4-Bromophenyl phenyl ether					ug/l	
34292	Butyl benzyl phthalate					ug/L	
77041	Carbon Disulfide					ug/L	
32102	Carbon Tetrachloride					ug/L	
39350	Chlordane					ug/L	
73529	p-Chloroaniline					ug/L	
34301	Chlorobenzene					ug/L	
39460	Chlorobenzilate					ug/L	
34452	p-chloro-m-cresol					ug/l	
34311	Chloroethane					ug/L	
32106	Chloroform					ug/L	
34581	2-Chloronaphthalene					ug/l	
34586	2-Chlorophenol					ug/l	
34641	4-Chlorophenyphenyl ether					ug/l	
81520	Chloroprene					ug/L	
34320	Chrysene					ug/L	
77151	m-Cresol					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 4 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
77152	o-Cresol					ug/L	
77146	p-Cresol					ug/L	
00720	Cyanide					mg/l	
39730	2,4-D; 2,4-Dichlorophenoxyacetic					ug/L	
39360	4,4-DDD					ug/L	
39365	4,4-DDE					ug/L	
39370	4,4-DDT					ug/L	
73540	Dialiate					ug/L	
34556	Dibenz(a,h)anthracene					ug/L	
81302	Dibenzofuran					ug/L	
32105	Dibromochloromethane					ug/L	
49146	1,2-Dibromo-3-chloropropane					ug/L	
77651	1,2-Dibromoethane					ug/L	
39110	Di-n-butylphthalate					ug/l	
34536	1,2-Dichlorobenzene					ug/L	
34566	1,3-Dichlorobenzene					ug/l	
34571	1,4-Dichlorobenzene					ug/L	
34631	3,3-Dichlorobenzidine					ug/l	
77268	trans-1,4-Dichloro-2-butene					ug/L	
34668	Dichlorodifluoromethane					ug/L	
34496	1,1-Dichloroethane					ug/L	
34531	1,2-Dichloroethane					ug/L	
34501	1,1-Dichloroethene					ug/L	
77093	cis-1,2-Dichloroethene					ug/L	
34546	trans-1,2-Dichloroethene					ug/L	
34601	2,4-Dichlorophenol					ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 5 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
77541	2,6-Dichlorophenol					ug/L	
34541	1,2-Dichloropropane					ug/L	
77173	1,3-Dichloropropane					ug/L	
77170	2,2-Dichloropropane					ug/L	
77168	1,1-Dichloropropene					ug/L	
34704	cis-1,3-Dichloropropene					ug/L	
34699	trans-1,3-Dichloropropene					ug/L	
39380	Dieldrin					ug/L	
34336	Diethyl phthalate					ug/l	
73553	Thionazin					ug/L	
46314	Dimethoate					ug/L	
73558	p-(Dimethylamino)azobenzene					ug/L	
73559	7,12-Dimethylbenz(a)anthracene					ug/L	
82213	3,3-Dimethylbenzidine					ug/L	
34606	2,4-Dimethylphenol					ug/L	
34341	Dimethyl phthalate					ug/l	
45622	m-Dinitrobenzene					ug/L	
34657	2-Methyl-4,6-dinitrophenol					ug/l	
34616	2,4-Dinitrophenol					ug/l	
34611	2,4-Dinitrotoluene					ug/l	
34626	2,6-Dinitroltoluene					ug/l	
81287	DNBP (Dinoseb)					ug/L	
34596	Di-n-octyl phthalate					ug/l	
77579	Diphenylamine					ug/L	
81888	Disulfoton					ug/L	
34361	Endosulfan I					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 6 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34356	Endosulfan II					ug/L	
34351	Endosulfan sulfate					ug/L	
39390	Endrin					ug/L	
34366	Endrin aldehyde					ug/L	
34371	Ethylbenzene					ug/L	
73570	Ethyl methacrylate					ug/L	
73571	Ethyl methanesulfonate					ug/L	
38462	Famphur					ug/L	
34376	Fluoranthene					ug/l	
34381	Fluorene					ug/l	
39410	Heptachlor					ug/L	
39420	Heptachlor epoxide					ug/L	
39700	Hexachlorobenzene					ug/l	
34391	Hexachlorobutadiene					ug/l	
34386	Hexachlorocyclopentadiene					ug/L	
34396	Hexachloroethane					ug/l	
73576	Hexachloropropene					ug/L	
34403	Indeno (1,2,3-c,d) pyrene					ug/l	
77033	Isobutyl alcohol					ug/L	
39430	Isodrin					ug/L	
34408	Isophorone					ug/l	
73582	Isosafrole					ug/L	
81281	Kepone					ug/L	
81593	Methacrylonitrile					ug/L	
73589	Methapyrilene					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 7 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39480	Methoxychlor					ug/L	
34413	Methyl bromide					ug/L	
77103	Methyl butyl ketone					ug/L	
34418	Methyl chloride					ug/L	
73591	3-Methylcholanthrene					ug/L	
81595	Methyl ethyl ketone					ug/L	
77424	Methyl iodide					ug/L	
81597	Methyl methacrylate					ug/L	
73595	Methyl methanesulfonate					ug/L	
77416	2-Methylnaphthalene					ug/L	
39600	Methyl Parathion					ug/L	
77596	Methylene Bromide					ug/L	
34423	Methylene Chloride					ug/L	
81596	Methyl isobutyl ketone					ug/L	
34696	Naphthalene					ug/l	
73599	1,4-Naphthoquinone or 1,4-Naphthalenedione					ug/L	
73600	1-Naphthylamine					ug/L	
73601	2-Naphthylamine					ug/L	
78142	o-Nitroaniline					ug/L	
78300	m-Nitroaniline					ug/L	
30342	p-Nitroaniline or 4-nitro-benzenamine					ug/L	
34447	Nitrobenzene					ug/l	
34591	2-Nitrophenol					ug/l	
34646	4-Nitrophenol					ug/l	
73609	N-Nitrosodi-n-butylamine					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 8 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
73611	N-Nitrosodiethylamine					ug/L	
34438	N-Nitrosodimethylamine					ug/l	
34428	N-Nitrosodipropylamine					ug/l	
34433	N-Nitrosodiphenylamine					ug/l	
73613	N-Nitrosomethylethalamine					ug/L	
73619	N-Nitrosopiperidine					ug/L	
78206	N-Nitrosopyrrolidine					ug/L	
73622	5-Nitro-o-toluidine					ug/L	
39540	Parathion					ug/L	
77793	Pentachlorobenzene					ug/L	
81316	Pentachloronitrobenzene					ug/L	
39032	Pentachlorophenol					ug/L	
73626	Phenacetin					ug/L	
34461	Phenanthrene					ug/l	
34694	Phenol					ug/l	
73628	p-Phenylenediamine					ug/L	
46313	Phorate					ug/L	
39516	Polychlorinated biphenyls					ug/L	
39080	Pronamide					ug/L	
77007	Propionitrile					ug/L	
34469	Pyrene					ug/l	
77545	Safrole					ug/L	
39760	Silvex; 2,4,5-TP					ug/L	
77128	Styrene					ug/L	
00745	Sulfide					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Annual Leachate Monitoring (Page 9 of 9)

WACS FACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
39740	2,4,5-Trichlorophenoxyacetic acid					ug/L	
77734	1,2,4,5-Tetrachlorobenzene					ug/L	
77562	1,1,1,2-Tetrachloroethane					ug/l	
34516	1,1,2,2-Tetrachloroethane					ug/L	
34475	Tetrachloroethene					ug/L	
77770	2,3,4,6-Tetrachlorophenol					ug/L	
34010	Toluene					ug/L	
77142	o-Toluidine					ug/L	
39400	Toxaphene					ug/L	
34551	1,2,4-Trichlorobenzene					ug/l	
34506	1,1,1-Trichloroethane					ug/L	
34511	1,1,2-Trichloroethane					ug/L	
39180	Trichloroethene					ug/L	
34488	Trichlorofluoromethane					ug/L	
77687	2,4,5-Trichlorophenol					ug/l	
34621	2,4,6-Trichlorophenol					ug/l	
77443	1,2,3-Trichloropropane					ug/L	
73652	0,0,0-Triethyl phosphorothioat					ug/L	
73653	sym-Trinitrobenzene					ug/L	
77057	Vinyl Acetate					ug/L	
39175	Vinyl Chloride					ug/L	
34020	Xylenes					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 1 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
00010	Temperature (field)					°C	
00299	Dissolved Oxygen (field by probe)					mg/L	
00406	pH (field)					STD	
00094	Spec. Conductance (field)					umhos/cm	
82078	Turbidity (field)					NTU's	
00612	Un-ionized Ammonia as N					mg/L	
00900	Total Hardness as $CaCO_3$					mg/L	
00680	Total Organic Carbon					mg/L	
70300	Total Dissolved Solids					mg/L	
00530	Total Suspended Solids					mg/L	
00310	BOD (5 Day) @ 20 °C					mg/L	
00340	Chemical Oxygen Demand					mg/L	
00600	Total Nitrogen as N					mg/L	
00620	Nitrate as N					mg/L	
00650	Total Phosphates as PO_4					mg/L	
32211	Chlorophyll A					ug/L	
	METALS						
01097	Antimony					ug/L	
01002	Arsenic					ug/L	
01007	Barium					ug/L	
01012	Beryllium					ug/L	
01027	Cadmium					ug/L	
01034	Chromium					ug/L	
01037	Cobalt					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 2 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
01042	Copper					ug/L	
01045	Iron					ug/L	
01051	Lead					ug/L	
71900	Mercury					ug/l	
01067	Nickel					ug/L	
01147	Selenium					ug/L	
01077	Silver					ug/L	
01059	Thallium					ug/L	
01087	Vanadium					ug/L	
01092	Zinc					ug/L	
	ORGANIC CONSTITUENTS				DRAFT		
81552	Acetone					ug/L	
34215	Acrylonitrile					ug/L	
34030	Benzene					ug/L	
73085	Bromochloromethane					ug/L	
32101	Bromodichloromethane					ug/L	
34413	Bromomethane					ug/L	
32104	Bromoform					ug/L	
77041	Carbon Disulfide					ug/L	
32102	Carbon Tetrachloride					ug/L	
34301	Chlorobenzene					ug/L	
34311	Chloroethane					ug/L	
32106	Chloroform					ug/L	
34418	Chloromethane					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 3 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
32105	Dibromochloromethane					ug/L	
049146	1,2-Dibromo-3-chloropropane					ug/L	
46369	1,2-Dibromoethane					ug/L	
46361	Dibromomethane					ug/L	
34536	1,2-Dichlorobenzene					ug/L	
34571	1,4-Dichlorobenzene					ug/L	
77268	trans-1,4-Dichloro-2-butene					ug/L	
34496	1,1-Dichloroethane					ug/L	
34531	1,2-Dichloroethane					ug/L	
34501	1,1-Dichloroethene					ug/L	
77093	cis-1,2-Dichloroethene					ug/L	
34546	trans-1,2-Dichloroethene					ug/L	
34541	1,2-Dichloropropane					ug/L	
34704	cis-1,3-Dichloropropene					ug/L	
34699	trans-1,3-Dichloropropene					ug/L	
34371	Ethylbenzene					ug/L	
77103	Methyl butyl ketone					ug/L	
81595	Methyl ethyl ketone					ug/L	
77424	Methyl iodide					ug/L	
34423	Methylene Chloride					ug/L	
81596	Methyl isobutyl ketone					ug/L	
77128	Styrene					ug/L	
77562	1,1,1,2-Tetrachloroethane					ug/l	
34516	1,1,2,2-Tetrachloroethane					ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT
(Rule 62-701.510)

Surface Water Monitoring (Page 4 of 4)

WACSFACILITY ID 89455 SAMPLE DATE _____

WACS TESTSITE ID _____ ANALYSIS DATE _____

TESTSITE SITE NAME _____ Surface Water Elevation (NGVD)_____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
34475	Tetrachloroethene					ug/L	
34010	Toluene					ug/L	
34506	1,1,1-Trichloroethane					ug/L	
34511	1,1,2-Trichloroethane					ug/L	
39180	Trichloroethene					ug/L	
34488	Trichlorofluoromethane					ug/L	
77443	1,2,3-Trichloropropane					ug/L	
77057	Vinyl Acetate					ug/L	
39175	Vinyl Chloride					ug/L	
34020	Xylenes					ug/L	
031616	Fecal coliform					#/100	

DRAFT

Florida Department of Environmental Protection

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

MONITORING WELL COMPLETION REPORT

DATE _____

FACILITY NAME: Oak Hammock Disposal, Class I Landfill_____

DER PERMIT NO.:_____ WACS FACILITY ID: 89455_____

WACS TESTSITE ID.:_____ TESTSITE SITE NAME:_____

WELL TYPE: BACKGROUND _____ DETECTION _____ COMPLIANCE _____

LATITUDE AND LONGITUDE:_____

AQUIFER MONITORED:_____

DRILLING METHOD: _____ DATE INSTALLED:_____

INSTALLED BY:_____

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

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

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

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

FILTER PACK TYPE:_____ FILTER PACK GRAIN SIZE:_____

INTERVAL COVERED:_____ TO _____(BLS)

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

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

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

DESCRIBE WELL DEVELOPMENT:_____

DRAFT

_____

_____

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD):_____

DATE AND TIME MEASURED:_____

REMARKS:_____

_____

NAME OF PERSON PREPARING REPORT:_____

(Name, Organization, Phone No.)

NOTE ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.
(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1929 (BLS) = BELOW LAND SURFACE

DEP Form 62-522.900(3) Effective April 14, 1994

Florida Department of Environmental Protection

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

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Oak Hammock Disposal, Class I Landfill

Address _____

City _____ Zip _____ County _____

Telephone Number (____) _____

(2) WACS Facility ID 89455

(3) DEP Permit Number _____

(4) Authorized Representative's Name _____ Title _____

Address _____

City _____ Zip _____ County _____

Telephone Number (____) _____

(5) Type of Discharge _____

(6) Method of Discharge _____

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

DRAFT

_____ _____

Date Owner or Authorized Representative's Signature

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Comp QAP # _____

Analytical Lab Comp QAP #/ HRS Certification _____

Lab Name _____

Address _____

Phone Number (____) _____

WATER SAMPLING LOG

SITE NAME: Oak Hammock Disposal, Class I Landfill	SITE LOCATION:	
WACS TESTSITE SITE NAME:	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (in):	TOTAL WELL DEPTH (ft):	DEPTH TO WATER (ft):	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (–) X =

PURGE METHOD:	PURGE INITIATED AT:	PURGING ENDED AT:

WELL VOLS. PURGED	CUMUL VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	TEMP. (°C)	COND. (umhos)	TOTAL VOLUME PURGED (gal): DISSOLVED OXYGEN (mg/L)	TURBIDITY NTUs	APPEARANCE	COLOR	ODOR

DRAFT

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT	SAMPLING ENDED AT:
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O= OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 4' = 0.65 gal/ft; 6" = 1.47 gal/ft; 12" = 5.88 gal/ft

NOTE: The above do not constitute all of the information required by Chapter 62-160, F.A.C.

CERTIFICATION

Oak Hammock Disposal, Class I

Permit Application Nos. SC49-0199726-001 & SO49-0199726-002

I HEREBY CERTIFY that the engineering features described in the referenced application for a landfill construction and operation permit provides reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).

This review was conducted by George Cheryan working under my direct supervision.

James N. Braoner, P.E.

Seal

Date: 9/24/2002

RECORD OF TELEPHONE COMMUNICATION

PERSON CALLING: Ed Yaun, SFWMD PHONE: 407-858-6100 x3824

PERSON CONTACTED: James Bradner PHONE: 407-893-3329

FILE/CASE NAME/#: Oak Hammock Landfill COUNTY: Osceola

TIME From: 2:35 p.m. To: 2:40 p.m DATE: 9/25/2002

SUMMARY

Ed Yaun confirmed that the South Florida Water Management District does not need a copy of the solid waste construction and operation permit application for the Oak Hammock Landfill. The FDEP Central District solid waste program will retain a spare copy at least through the public comment period following publication of the notice of proposed agency action, in case SFWMD needs its own copy of the application.

ACTION REQUIRED

CC:

SIGNED: DATE: 9/25/2002

RECORD OF TELEPHONE COMMUNICATION

PERSON CALLING: James Brudner PHONE: 407-893-3329

PERSON CONTACTED: Alan Leavens, SFWMD PHONE: 407-858-6100 x3812

FILE/CASE NAME/#: Oak Hummock Landfill COUNTY: Osceola

TIME From: 1:20 pm To: 1:25 pm DATE: 9/25/2002

SUMMARY

I confirmed with Alan that the South Florida Water Management District does not need a copy of the solid waste construction and operation permit application. A copy of the application will be available for the SFWMD in the future, if necessary.

ACTION REQUIRED

Also contact Ed Yaun at 407-898-6100 x3824 to confirm previous conversation on the same subject.

CC: _____

SIGNED: J Brudner DATE: 1/25/2002

Bradner, James

From: Bradner, James
Sent: Tuesday, September 24, 2002 1:56 PM
To: 'ddee@landersandparsons.com'
Cc: Bostwick, William; Cheryan, George; Williams, Elizabeth
Subject: RE: Omni

Good afternoon, David:

This will confirm that I received your electronic mail message as well as your voicemail, and I will submit the notice of proposed agency action to Vivian Garfein for signature.

Thanks,

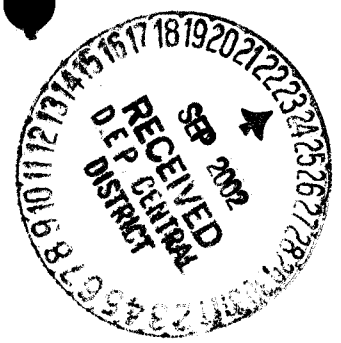
Jim Bradner

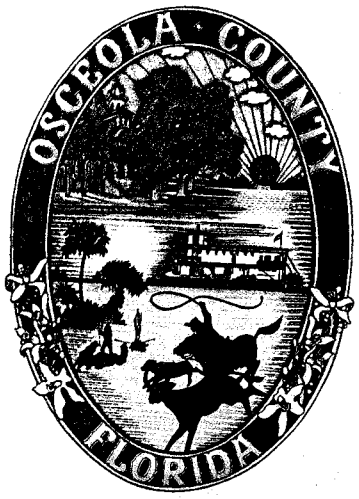
-----Original Message-----
From: David S. Dee [mailto:ddee@landersandparsons.com]
Sent: Tuesday, September 24, 2002 1:42 PM
To: Bradner, James
Cc: Tim Salopek; Ken Cargill
Subject: Omni

Jim,
Please issue the notice of intent for Omni's landfill permit.

Thanks.

Osceola County SW





September 18, 2002

Ron Kaplan
Florida Counsel
Waste Management Inc.
of Florida
2700 NW 48th Street
Pompano Beach, Fla. 33073

Re: Oak Hammock Landfill

Dear Mr. Kaplan:

As you may know, Osceola County and Waste Management Inc., of Florida (WMIF) have enjoyed a mutually beneficial working relationship for many years. WMIF has prospered while providing solid waste collection services to the County's residents. I hope that the County's cooperative relationship with WMIF will continue under WMIF's current contract and for many years to come.

Osceola County is working closely with Omni Waste to ensure that the permits for its Oak Hammock Landfill to be built here in Osceola County are issued as expeditiously as possible. The County's existing landfill is nearing its maximum capacity. When the existing landfill is full, the County plans to use the Oak Hammock Landfill pursuant to the County's ten year agreement with Omni.

Given this background, I was disappointed to learn that WMIF may be planning to challenge the issuance of the environmental permits for the proposed Oak Hammock Landfill. If WMIF'S actions delay the issuance of the permits for the Oak Hammock Landfill, it will have direct and significant adverse effects on the County's residents.

It is my understanding that WMIF or its representatives/consultants have met with the Florida Department of Environmental Protection and U.S. Army Corps of Engineers to oppose the permitting of this project, and taken other steps which suggest that WMIF is contemplating appeals or other dilatory actions. Since I am not aware of any facts which suggest that WMIF has a legitimate environmental interest in the Oak Hammock Landfill, I can only assume that WMIF is trying to protect its own economic interests. If I am correct about these matters, WMIF's actions would seem inappropriate, anti competitive in nature and directly contrary to the interest of the County's citizens.

I hope that WMIF will recognize the value of maintaining a cooperative working relationship with Osceola County, and trust that WMIF will not take any

Osceola County

1 Courthouse Square
Kissimmee, Fl 34741
(407) 343-2200
Fax (407) 343-2210

action, directly or through others, to delay or impede the issuance of the state and federal permits for the Oak Hammock Landfill.

In closing, let me say that the feelings expressed herein are strictly personal, and that I have not discussed this matter with the other members of the Board of County Commissioners.

Sincerely,

PAUL OWEN, Chairman
Osceola County Board of
County Commissioners

Copies to:

Vivian Garfein, DEP
Allan Bedwell, DEP
John Hall, U.S. Army Corps of Engineers
Tim Salopek

Bradner, James

From: David S. Dee
Sent: Monday, September 02, 2002 10:16 AM
To: Bradner, James
Cc: Ken Cargill
Subject: Oak Hammock

Jim,

I reviewed the draft permit for Oak Hammock and offer the following comments for your consideration:

1. Cover page, first paragraph, second sentence, third line: "work and operate the facility . . ." Delete "or".

2. General Conditions, No. 11: the correct citation is "62-730.300, Florida Administrative Code . . ." Add the "7".

3. Specific Conditions, No.1: delete the comma after "the permittee".

4. Specific Conditions, No. 2: add a comma after "engineering drawings".

5. S.C. 33, last sentence, last line: delete "take" (but not "taken").

6. S.C. 38, second line: delete "which".

7. S.C. 42: ". . . vertical and, when the final cover is installed, [and] shall be sodded . . . ." Delete the existing "and" and move it, as shown.

8. S.C. 57, first sentence, first line: "The permittee shall comply with the applicable requirements of . . . ." Subparts WWW and Cc. Add "applicable".

All of these comments are relatively insignificant. However, No. 8 is noteworthy because Subpart Cc may not be applicable here. Subpart Cc may only apply to existing landfills, not new landfills (which are covered by WWW).

Please call me if you have any questions. 850-681-0311.

David Dee

Helle, Deborah

From: Bradner, James
Sent: Thursday, September 05, 2002 8:19 AM
To: Helle, Deborah
Subject: FW: Oak Hammock Revised MPIS


Cak Hammock MPIS Rev.doc


Oak Hammock Map C.pdf


Oak Hammock Map D.pdf

Please see me about proposed changes to the Oak Hammock MPIS.

-----Original Message-----
From: Jerry Kubal [mailto:jkubal@kubal-furr.com]
Sent: Wednesday, September 04, 2002 3:05 PM
To: Bradner, James
Subject: Oak Hammock Revised MPIS

Jim, attached are my suggestions for revising the MPIS to be consistent with permit conditions and the monitoring plan presented in the application.

I've done the following:

(1). Deleted text is shown in red

(2). Inserted text is shown in blue and double underlined.

(3). Former Attachment C (Map C) now becomes Attachment D (Map D) and is attached. Please change the Attachment letter on your original.

(4). A new Attachment C is attached. It shows the location of all piezometers. Rather than make a new drawing not shown in the application, I've just added text to note several piezometers will be covered by cells 1-4 and will be abandoned.

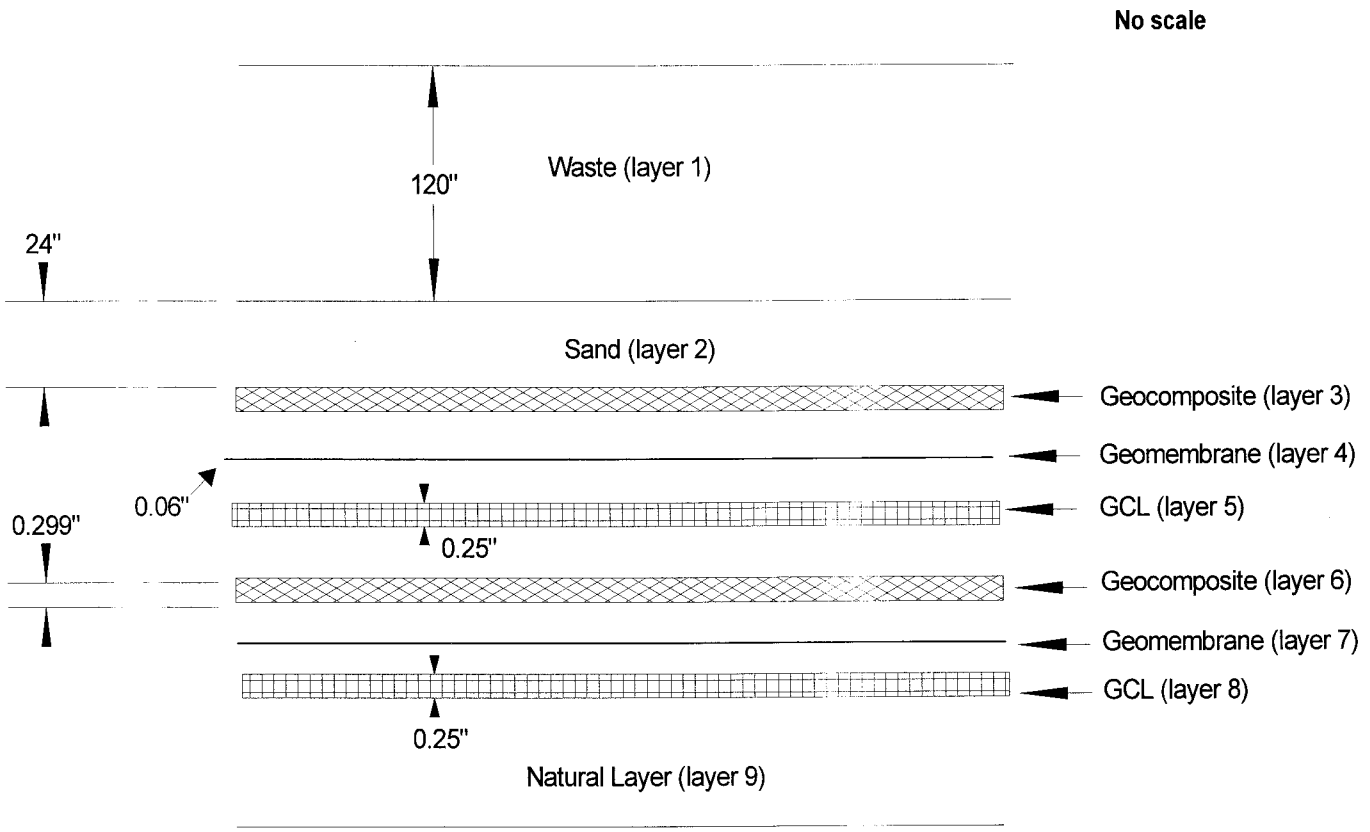
I've renumbered paragraphs after 16 which was deleted. It was a redundancy.

I think this is it, Jim. Call me with any questions.

Thanks.

Jerry
--
Jerry E. Kubal
Kubal-Furr & Associates
P.O. Box 273210
Tampa, FL 33688-3210
813-265-2338
Fax-265-3649

Liner System
Case 1 (Base Case)



LINER SYSTEM
CASE 1 (Base Case)

Dec/17/01
FW0400/03

WEATHER DATA AND SOIL LAYERS PROPERTIES

A. Evapotranspiration data

Data	Value	Units
Nearby city	Orlando	
State	Florida	
Latitude	27.8	
Evaporative zone depth	12	in
bare	10	
fair	22	
excellent	40	
Maximum leaf area index	0	
bare ground	0	
poor stand of grass	1	
fair stand of grass	2	
good stand of grass	3.5	
excellent stand of grass	5	
Growing season start day	0	
Growing season end day	367	
Average wind speed	8.6	mph
First quarter relative humidity	72	%
Second quarter relative humidity	72	%
Third quarter relative humidity	80	%
Fourth quarter relative humidity	76	%

B. Precipitation

Data	Value
Nearby city	Tampa
State	Florida
Years for data generatic	25

Normal mean monthly precipitation (in)

January	2.17	July	7.35
February	3.04	August	7.64
March	3.46	September	6.23
April	1.82	October	2.34
May	3.38	November	1.87
June	5.29	December	2.14

46.73 in

Runoff curve number

Slope	5	%
Slope length	1000	ft
Soil texture	18	waste type
Vegetation	1	bare ground
Runoff curve number	79	
Area of runoff	0	%

C. Temperature

Data	Value
Nearby city	Orlando
State	Florida
Years for data generation	25

Normal mean monthly temperature (°F)

January	60.5	July	82.4
February	61.5	August	82.5
March	66.8	September	81.1
April	72	October	74.9
May	77.3	November	67.5
June	80.9	December	62

D. Solar Radiation

Data	Value
Nearby city	Orlando
State	Florida
Years for data generation	25

E. Geomembrane and Area

Placement of geomembrane	good
Pinhole (# of defects/area)	2
Defect density per acre	2
Area assumed in program (acre)	1
Total area (acre)	195

F. Properties of soil layers

File: OMNIB

Layer	Type	Description	Thickness in	Texture number	Porosity vol/vol	Field cap. vol/vol	Wilting point vol/vol	Conductivity cm/sec	Length Drain ft	Slope %
1	1	Vertical percolation	120	18	0.168	0.073	0.019	0.001		
2	1	Vertical percolation	24	1	0.417	0.045	0.018	0.010		
3	2	Lateral drainage	0.299		0.85	0.01	0.005	13.16	1000	2
4	4	Geomembrane liner	0.060	35				2E-13		
5	3	GCL	0.250	17	0.750	0.747	0.400	3.00E-09		
6	2	Lateral drainage	0.299		0.850	0.010	0.005	13.16	1000	2
7	4	Geomembrane liner	0.060	35				2E-13		
8	3	GCL	0.250	17	0.750	0.747	0.400	3.00E-09		
9	1	Vertical percolation	120.000	5	0.457	0.131	0.058	0.001		

PARAMETRIC STUDY (A. DEPTH OF WASTE)

Dec/17/01

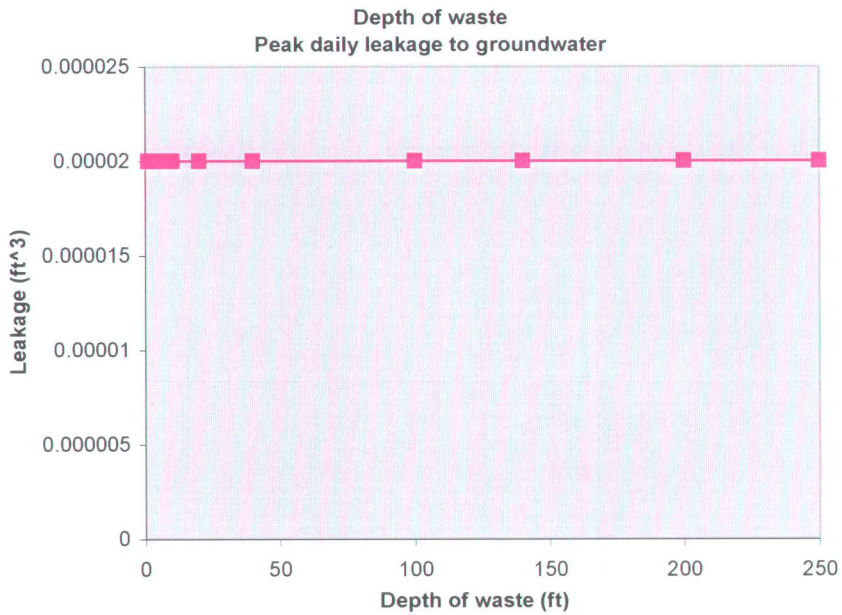
FILE: OMNIB1

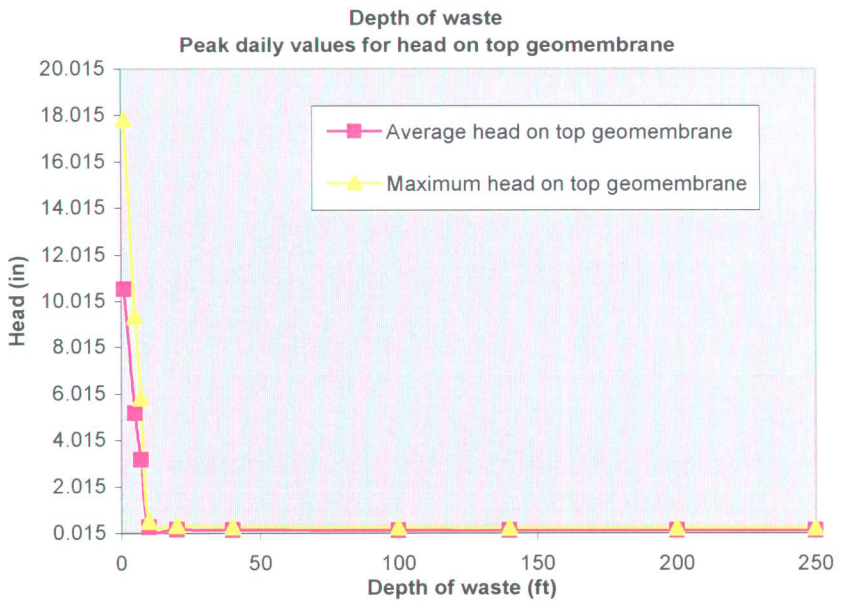
FW0400/03

Geocomposite

Manufacturer:	TENAX	
Code:	Tendrain 770-2/7100-2	
Gradient:	0.1	
Stress:	25000	psf
	1197.006	kPa
Transmissivity:	1.00E-04	m^2/sec
Thickness:	7.6	mm
Conductivity:	1.32	cm/sec
Cover soils	daily	
Area:	1	acre

Waste Thickness (ft)	Peak Daily Leakage to Groundwater (ft^3)	Peak Daily Leakage to Groundwater (in)	Average Annual Total Leakage to Groundwater (ft^3)	Average Annual Total Leakage to Groundwater (in)	Peak Day Max Head (in)	Peak Day Average Head (in)	Average Annual Total Head on Top Layer 4 (in)	
1	0.00002	0.000000	0.009	0.00000	17.830	10.531	0.074	
5	0.00002	0.000000	0.009	0.00000	9.335	5.187	0.022	
7	0.00002	0.000000	0.009	0.00000	5.832	3.175	0.017	
10	0.00002	0.000000	0.009	0.00000	0.523	0.264	0.016	**Base Case**
20	0.00002	0.000000	0.009	0.00000	0.321	0.162	0.016	
40	0.00002	0.000000	0.009	0.00000	0.270	0.136	0.016	
100	0.00002	0.000000	0.009	0.00000	0.236	0.118	0.016	
140	0.00002	0.000000	0.009	0.00000	0.229	0.115	0.016	
200	0.00002	0.000000	0.009	0.00000	0.221	0.112	0.016	
250	0.00002	0.000000	0.009	0.00000	0.220	0.110	0.016	





PARAMETRIC STUDY (B. LENGTH OF DRAINAGE)

Dec/17/01

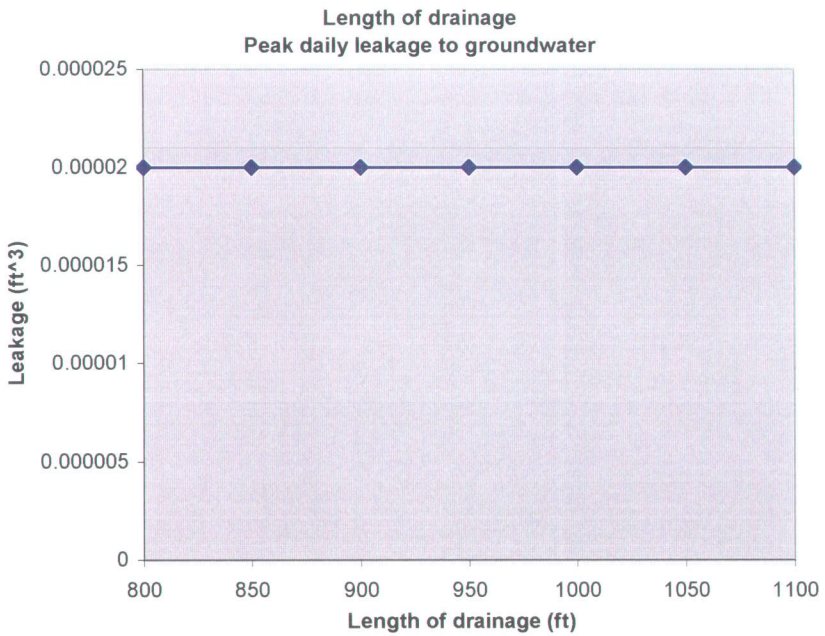
FILE: OMNIB2

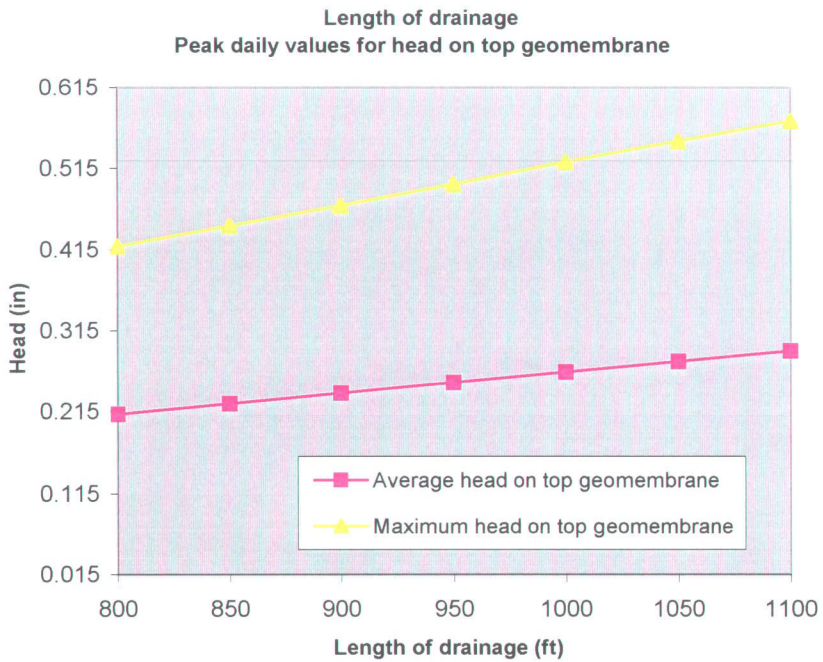
FW0400/03

Geocomposite

Manufacturer:	TENAX	
Code:	Tendrain 770-2/7100-2	
Gradient:	0.1	
Stress:	25000	psf
	1197.006	kPa
Transmissivity:	1.00E-03	m^2/sec
Thickness:	7.6	mm
Conductivity:	13.16	cm/sec
Cover soils	daily	
Area:	1	acre

Length of Drainage (ft)	Peak Daily Leakage to Groundwater (ft^3)	Peak Daily Leakage to Groundwater (in)	Average Annual Total Leakage to Groundwater (ft^3)	Average Annual Total Leakage to Groundwater (in)	Peak Day Max Head (in)	Peak Day Average Head (in)	Average Annual Total Head on Top Layer 4 (in)	
800	0.00002	0.000000	0.009	0.00000	0.419	0.212	0.013	
850	0.00002	0.000000	0.009	0.00000	0.445	0.225	0.014	
900	0.00002	0.000000	0.009	0.00000	0.470	0.238	0.015	
950	0.00002	0.000000	0.009	0.00000	0.496	0.251	0.016	
1000	0.00002	0.000000	0.009	0.00000	0.523	0.264	0.016	**Base Case**
1050	0.00002	0.000000	0.009	0.00000	0.548	0.277	0.017	
1100	0.00002	0.000000	0.009	0.00000	0.573	0.290	0.018	





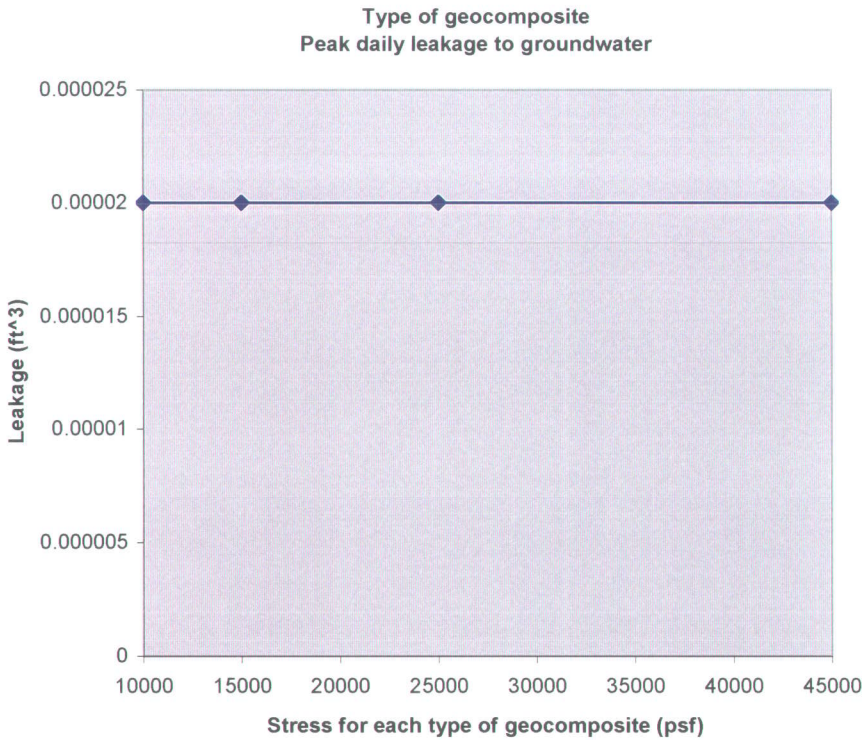
PARAMETRIC STUDY (C. TYPE OF GEOCOMPOSITE)

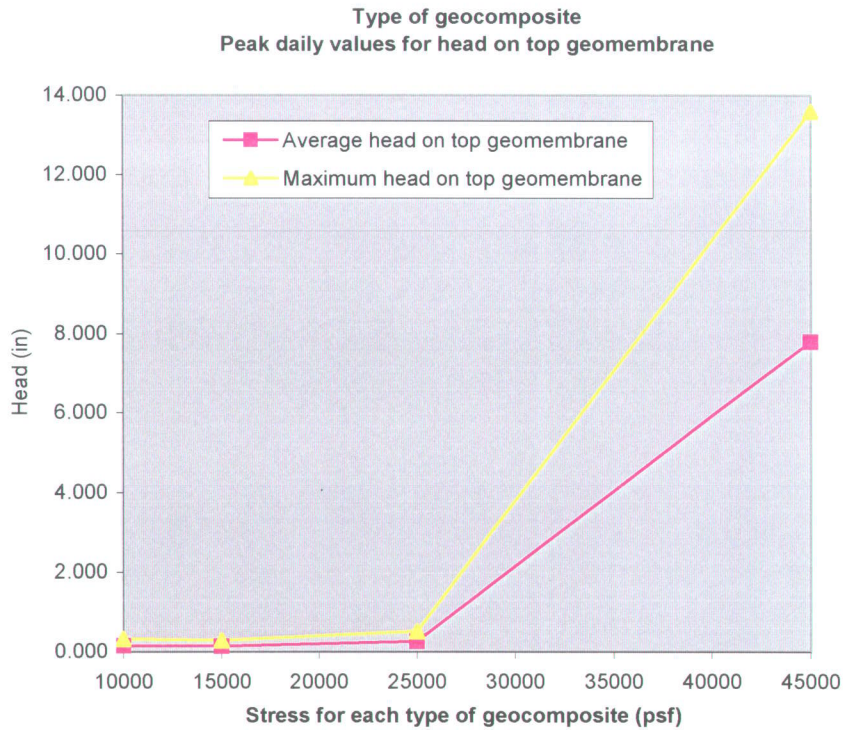
Dec/17/01

FILE: **OMNIB3**

FW0400/03

Tendrain	Gradient	Stress (psf)	Stress (kPa)	Transmissivity m^2/sec	Thickness (mm)	Conductivity (cm/sec)	Waste Thickness (ft)	Peak Daily Leakage to Groundwater (ft^3)	Average Annual Total Leakage to Groundwater (ft^3)	Peak Day Max Head (in)	Peak Day Average Head (in)	Average Annual Total Head on Top Layer 4 (in)	
570-2/5100-2	0.1	10000	478.803	1.50E-03	7.0	21.43	10	0.00002	0.009	0.321	0.162	0.010	
770-2/7100-2	0.1	15000	718.204	1.80E-03	7.6	23.68	10	0.00002	0.009	0.291	0.146	0.009	
770-2/7100-2	0.1	25000	1197.006	1.00E-03	7.6	13.16	10	0.00002	0.009	0.523	0.264	0.016	**Base Case**
970-2/9100-2	0.1	45000	2154.612	3.50E-04	7.8	4.49	10	0.00002	0.009	13.591	7.800	0.173	





PARAMETRIC STUDY (D. BOTTOM SLOPE)

Dec/17/01

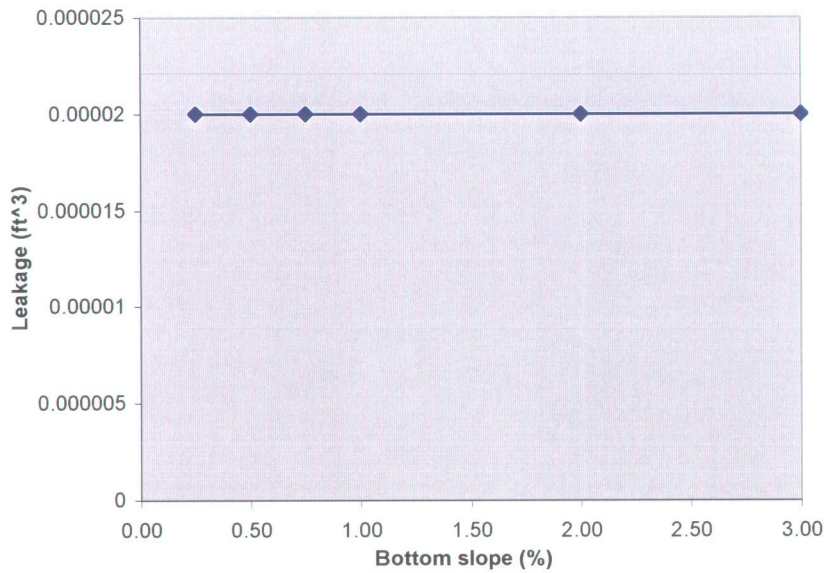
FW0400/03

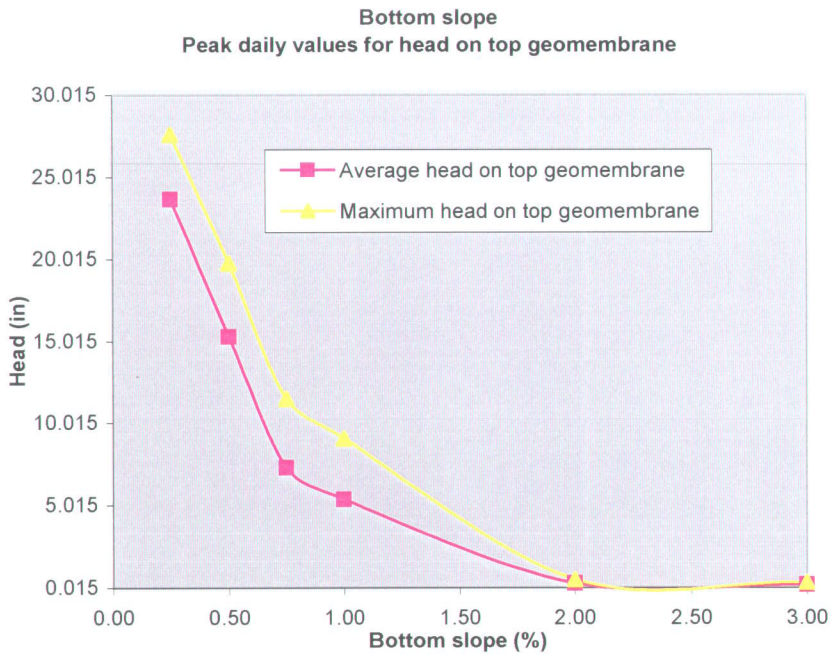
FILE: OMNIB4

Geocomposite

Manufacturer:	TENAX	
Code:	Tendrain 770-2/7100-2	
Gradient:	0.1	
Stress:	25000	psf
	1197.006	kPa
Transmissivity:	1.00E-03	m^2/sec
Thickness:	7.6	mm
Conductivity:	13.16	cm/sec
Cover soils	daily	
Area:	1	acre

Bottom slope (%)	Peak Daily Leakage to Groundwater (ft^3)	Peak Daily Leakage to Groundwater (in)	Average Annual Total Leakage to Groundwater (ft^3)	Average Annual Total Leakage to Groundwater (in)	Peak Day Max Head (in)	Peak Day Average Head (in)	Average Annual Total Head on Top Layer 4 (in)	
0.25	0.00002	0.000000	0.009	0.00000	27.606	23.653	2.176	
0.50	0.00002	0.000000	0.009	0.00000	19.760	15.293	0.546	
0.75	0.00002	0.000000	0.009	0.00000	11.474	7.299	0.145	
1	0.00002	0.000000	0.009	0.00000	9.094	5.384	0.053	
2	0.00002	0.000000	0.009	0.00000	0.523	0.264	0.016	**Base Case**
3	0.00002	0.000000	0.009	0.00000	0.351	0.176	0.011	





PARAMETRIC STUDY (E. PERMEABILITY OF SAND)

Dec/17/01

FILE: OMNIB5

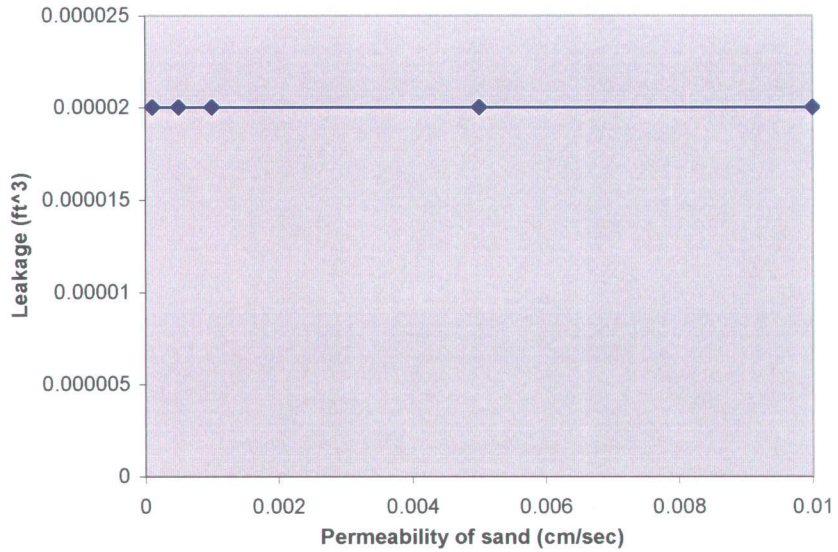
FW0400/03

Geocomposite

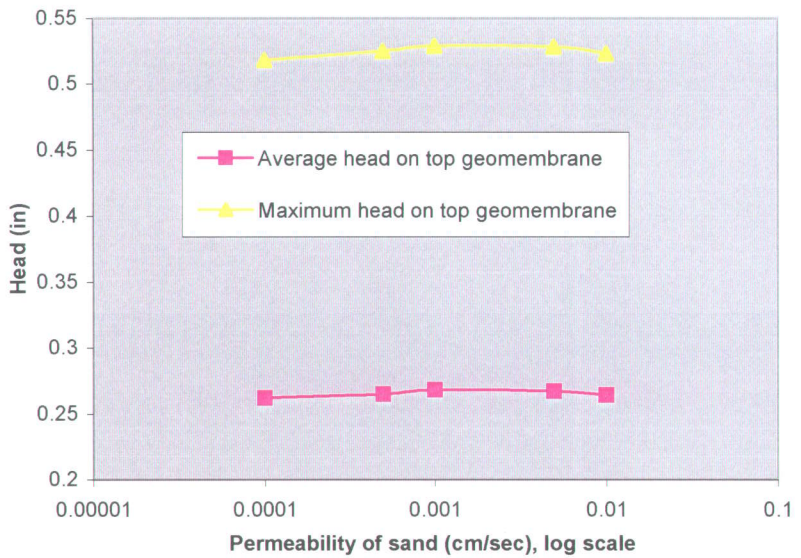
Manufacturer:	TENAX	
Code:	Tendrain 770-2/7100-2	
Gradient:	0.1	
Stress:	25000	psf
	1197.006	kPa
Transmissivity:	1.00E-03	m^2/sec
Thickness:	7.6	mm
Conductivity:	13.16	cm/sec
Cover soils	daily	
Area:	1	acre

Permeability of sand (cm/sec)	Peak Daily Leakage to Groundwater (ft^3)	Peak Daily Leakage to Groundwater (in)	Average Annual Total Leakage to Groundwater (ft^3)	Average Annual Total Leakage to Groundwater (in)	Peak Day Max Head (in)	Peak Day Average Head (in)	Average Annual Total Head on Top Layer 4 (in)	
0.0001	0.00002	0.000000	0.009	0.00000	0.5180	0.262	0.016	
0.0005	0.00002	0.000000	0.009	0.00000	0.5250	0.265	0.016	
0.001	0.00002	0.000000	0.009	0.00000	0.5290	0.268	0.016	
0.005	0.00002	0.000000	0.009	0.00000	0.5280	0.267	0.016	
0.01	0.00002	0.000000	0.009	0.00000	0.5230	0.264	0.016	**Base Case**

Permeability of sand
Peak daily leakage to groundwater



Permeability of sand
Peak daily values for head on top geomembrane



DIFFERENT DESIGNS FOR THE LINER SYSTEM

Dec/17/01

FW0400/03

Design 1 (Base case, OMNIB)

Layer	Description	Thickness (in)	Texture number	Porosity (vol/vol)	Field cap. (vol/vol)	Wilting point (vol/vol)	Conductivity (cm/sec)
1	Vertical percolation	120	18	0.168	0.073	0.019	0.001
2	Vertical percolation	24	1	0.417	0.045	0.018	0.010
3	Lateral drainage	0.299		0.85	0.01	0.005	13.16
4	Geomembrane liner	0.060	35				2E-13
5	GCL	0.250	17	0.750	0.747	0.400	3.00E-09
6	Lateral drainage	0.299		0.850	0.010	0.005	13.16
7	Geomembrane liner	0.060	35				2E-13
8	GCL	0.250	17	0.750	0.747	0.400	3.00E-09
9	Vertical percolation	120.000	5	0.457	0.131	0.058	0.001

RESULTS

Design	Peak Daily Leakage to groundwater (ft^3)	Average Annual Total Leakage to groundwater (ft^3)	Peak Day Max Head (in)	Peak Day Average Head (in)
1	0.00002	0.009	0.523	0.264
2	0.00004	0.010	0.475	0.240
3	0.00003	0.009	0.523	0.264
4	0.00703	0.474	0.475	0.240
5	0.00028	0.014	0.523	0.264

Design 2 (Take out top GCL, OMNIC)

Layer	Description
1	Vertical percolation
2	Vertical percolation
3	Lateral drainage
4	Geomembrane liner
	take out
5	Lateral drainage
6	Geomembrane liner
7	GCL
8	Vertical percolation

Design 3 (Take out bottom GCL, OMNID)

Layer	Description
1	Vertical percolation
2	Vertical percolation
3	Lateral drainage
4	Geomembrane liner
5	GCL
6	Lateral drainage
7	Geomembrane liner
	take out
8	Vertical percolation

Design 4 (Replace bottom GCL with soil, OMNIE)

Layer	Description	Thickness in	Texture number	Porosity vol/vol	Field cap. vol/vol	Wilting point vol/vol	Conductivity cm/sec
1	Vertical percolation	120	18	0.168	0.073	0.019	0.001
2	Vertical percolation	24	1	0.417	0.045	0.018	0.010
3	Lateral drainage	0.299		0.85	0.01	0.005	13.16
4	Geomembrane liner	0.060	35				2E-13
	take out						
5	Lateral drainage	0.299		0.850	0.010	0.005	13.16
6	Geomembrane liner	0.060	35				2E-13
7	Barrier soil liner	6.000		0.475	0.378	0.265	1.00E-05
8	Vertical percolation	120.000	5	0.457	0.131	0.058	0.001

Design 5 (One liner system, OMNIF)

Layer	Description
1	Vertical percolation
2	Vertical percolation
3	Lateral drainage
4	Geomembrane liner
5	GCL
	take out
	take out
	take out
6	Vertical percolation

Bradner, James

From: Janice [suny2455@bellsouth.net]
Sent: Friday, August 30, 2002 4:43 PM
To: Bradner, James
Subject: Re: Proposed Oak Hammock Landfill

sure do appreicate it....
have a great weekend and holiday
try to stay dry!
blessins.....Jan

----- Original Message -----
From: Bradner, James <James.Bradner@dep.state.fl.us>
To: Janice <suny2455@bellsouth.net>
Cc: Williams, Elizabeth <Elizabeth.Williams@dep.state.fl.us>
Sent: Friday, August 30, 2002 3:18 PM
Subject: RE: Proposed Oak Hammock Landfill

Good afternoon, Janice:

As you requested, I've attached the current working draft permit for the Oak Hammock Landfill. The attached document is what you would find in the file today if you came to the Central District office for a file review. The draft permit may be further revised before we propose final agency action.

I hope you find this helpful, and I wish you a safe and pleasant holiday.

Regards,

Jim

Bradner, James

From: David S. Dee
Sent: Monday, September 02, 2002 10:16 AM
To: Bradner, James
Cc: Ken Cargill
Subject: Oak Hammock

Jim,

I reviewed the draft permit for Oak Hammock and offer the following comments for your consideration:

1. Cover page, first paragraph, second sentence, third line: "work and operate the facility . . ." Delete "or".

2. General Conditions, No. 11: the correct citation is "62-730.300, Florida Administrative Code . . ." Add the "7".

3. Specific Conditions, No.1: delete the comma after "the permittee".

4. Specific Conditions, No. 2: add a comma after "engineering drawings".

5. S.C. 33, last sentence, last line: delete "take" (but not "taken").

6. S.C. 38, second line: delete "which".

7. S.C. 42: ". . . vertical and, when the final cover is installed, [and] shall be sodded . . . ." Delete the existing "and" and move it, as shown.

8. S.C. 57, first sentence, first line: "The permittee shall comply with the applicable requirements of . . . ." Subparts WWW and Cc. Add "applicable".

All of these comments are relatively insignificant. However, No. 8 is noteworthy because Subpart Cc may not be applicable here. Subpart Cc may only apply to existing landfills, not new landfills (which are covered by WWW).

Please call me if you have any questions. 850-681-0311.

David Dee

Osceola County SW
Oak Hammock Landfill

Department of Environmental Protection

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

Jeb Bush
Governor

David B. Struhs
Secretary

MEETING ATTENDANCE RECORD

Purpose: OMNI WASTE Date: Aug 28, 2002

Name (please print)	Affiliation
GEORGE CHERYAN	DEP
WILLIAM J. KOZUH	OMNI - 407-957-7284
RAY TOBEY	CITY OF ST. CLOUD
TIM SALOPEK	OMNI WASTE
JENNY MARION	OSCEOLA CTY SOLID WASTE
JERRY E. KUBAL	KUBAL-FURR & ASSOCIATES
Ken Cargill	GeoSyntec Cons. 813-558-0990
Ayadhman Gupta	" " " " "
BILL BOSTWICK	FDEP
Jim Bradner	FDEP
David Dee	L+P 850-681-0311

MEETING ATTENDANCE RECORD

Continued on reverse side

Williams, Elizabeth

From: Ken Cargill [KCargill@GeoSyntec.com]
Sent: Tuesday, July 30, 2002 4:54 PM
To: Bradner, James
Cc: Cheryan, George; Williams, Elizabeth; Bill Kozuh (E-mail); David S. Dee (E-mail); Timothy J. Salopek (E-mail)
Subject: RE: Oak Hammock Disposal Facility

geomembrane penetration.pdf

Jim

Thanks for the opportunity to respond to Lee Martin's comment regarding the geomembrane penetrations in the final cover system of the closed landfill.

Lee is absolutely correct in that the detail as originaly shown would be very hard to monitor and maintain as the landfill goes through waste consolidation after the cap is installed.

We propose to revise the detail as shown in the attached PDF file. As you can see in the detail, there will be an HDPE sleeve, which will be clamped and sealed to the geomembrane boot, around the penetrating HDPE pipe. The sleeve and the penetrating pipe will be sealed with a Fernco-type connector, which will be above the soil cover, where it can be routinely observed and adjusted as the waste consolidates.

We think this is a good fix and will solve the problem, which Lee pointed out.

I will furnish you copies of the revised drawing showing the detail to replace the sheets previously submitted within the next few days. (I will also take the opportunity to furnish you full-size revised sheets of Addendum 2 to the ERP, which we just forwared to Scott W.)

Jim, if you, George, or Lee need further information on this clarification or have other suggestions, please let me know. Thanks again for the opportunity to respond.

Best regards,
Ken Cargill

-----Original Message-----
From: Bradner, James [mailto:James.Bradner@dep.state.fl.us]
Sent: Thursday, July 18, 2002 1:30 PM
To: kcargill@geosyntec.com
Cc: Cheryan, George; Williams, Elizabeth
Subject: Oak Hammock Disposal Facility

Good afternoon, Ken:

It was a pleasure meeting with you yesterday, and I appreciate your assistance in sending the results of the liner comparison study to Richard Tedder. We spoke by phone today, and he asked me to let you know that he was
looking forward to receiving the information.

George Cheryan and I have reviewed your reply to my June 17 letter, and found
your responses to be satisfactory. In the interim, we received the following
comment from our colleague Lee Martin in Tallahassee:

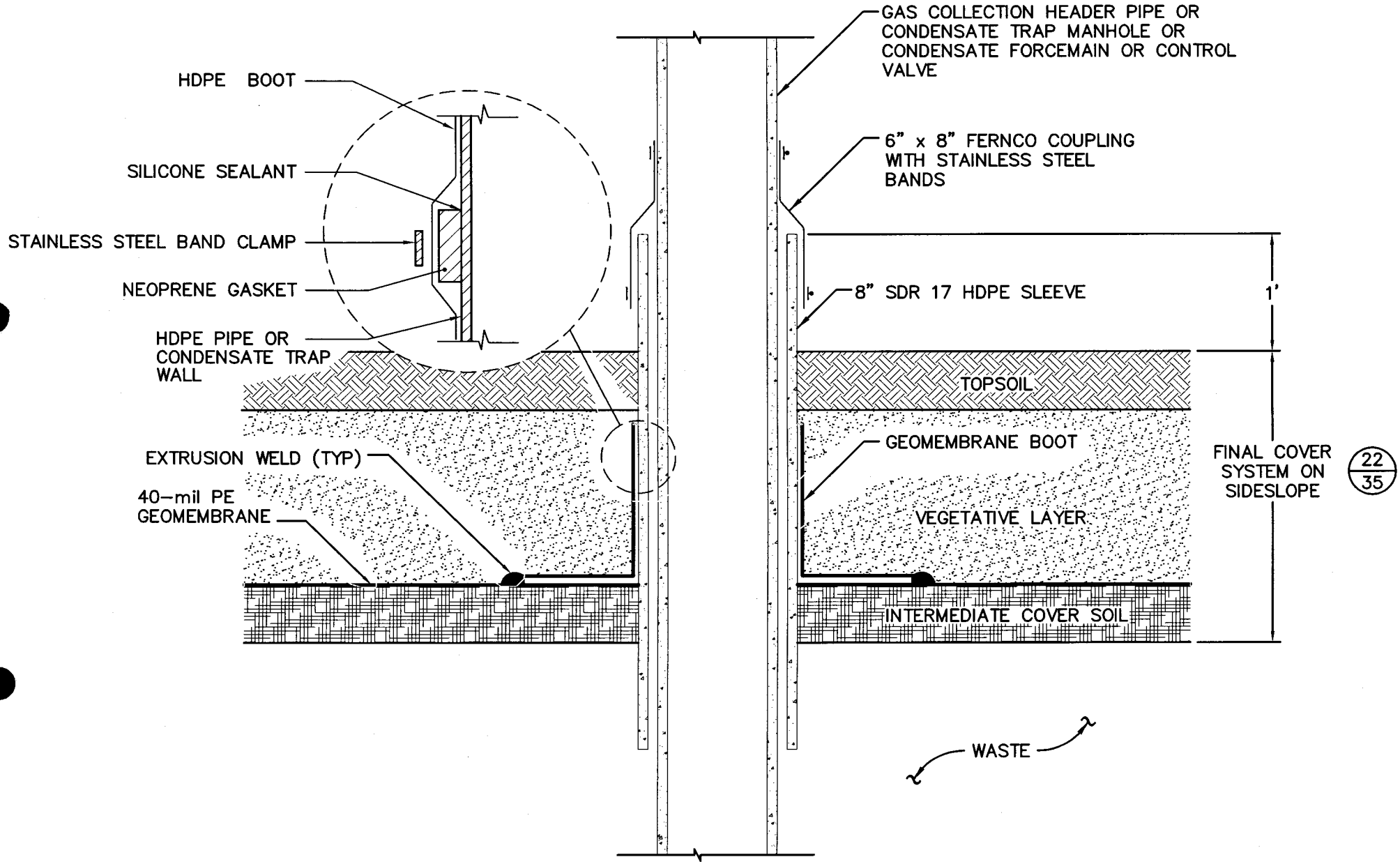
"On sheet 31 of 50, detail 16/31, there seems to be very little expansion capability in the flexible boot for the gas collection wells. Once the 20' of waste under the well settles and compacts, the well may become more or less stationary while the waste above and the cap continue to settle. The narrative indicated settlement of up to 2' at the peak. Since the detail is not to scale, it is hard to tell if the clamp connecting the boot will be visible after the final cover is in place and have the capability of being adjusted as settlement takes place and I couldn't find any inspection requirement in the operations plan after the cap is complete to ensure the boot does not pull away from the liner or the gas collection well. This is something they may want address with a different type of boot or additional inspection requirements."

Rather than send an additional request for information, I would appreciate your response either by email or telephone. I expect you or Bill will have the answer readily available, or would be willing to discuss whether any minor design changes are necessary.

Thanks again, and I will look forward to hearing from you.

Regards,

Jim Bradner



16/31 DETAIL (TYPICAL)
GEOMEMBRANE PENETRATION

SCALE: N.T.S.
XREF: 0400X1041.DWG

Florida Department Of

Memorandum **Environmental Protection**

CENTRAL DISTRICT

TO: Financial Coordinator
Solid Waste Section
MS-4565
Division of Waste Management

OCD-SW-02-0304

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

DATE: July 29, 2002

SUBJECT: Osceola County – SW
Oak Hammock Disposal, Class I
Permit Application Nos. SC49-0199726-001 & SO49-0199726-002

We have reviewed the enclosed closure and long-term care cost estimates dated April 30, 2002, for the subject facility and believe that they are adequate for the site at this time.

Please feel free to contact me if you need any additional information.

JNB/gc/ew

Enclosures

cc: Frank Hornbrook – DEP – Tallahassee – MS-4565

DEP Form # 62-701.900(28)
Form Title Financial Assurance Cost Estimate Form
Effective Date 05-27-01

DEP Application No. _____
(Filled by DEP)

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

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: 30 APRIL 2002 Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: OAK HAMMOCK DISPOSAL WACS or GMSID #: _____

Permit / Application No.: _____ Expiration Date: _____

Facility Address: HIGHWAY U.S. 441

Permittee: OMNI WASTE OF OSCEOLA COUNTY, LLC

Mailing Address: 100 CHURCH ST. KISSIMMEE, FLORIDA 34741

Latitude: 28°03'31" Longitude: 81°05'46" or UTM: _____

Solid Waste Disposal Units Included in Estimate:

PHASE 1

~~Phase~~ / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
1	18.04	PROPOSED	5 YEARS
2	12.44	PROPOSED	5 YEARS
3	10.98	PROPOSED	5 YEARS
4	10.98	PROPOSED	5 YEARS

Total Landfill Acreage included in this estimate. 52.44 Closure 52.44 Long-Term Care

Type of landfill: X Class I _____ Class III _____ C&D Debris

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

WILL BE PROVIDED TO FDEP PRIOR TO PERMIT ISSUANCE.

_____ Letter of Credit*

_____ Performance Bond*

_____ Guaranty Bond*

_____ Insurance Certificate

_____ Escrow Account

_____ Trust Fund Agreement

*Indicates mechanisms that require use of a Standby Trust Fund Agreement

III. ESTIMATE ADJUSTMENT N/A

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☐ **(a) Inflation Factor Adjustment**

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: N/A

Latest Department Approved		Current Year		Inflation Adjusted
N/A	x	N/A	=	N/A

This adjustment is based on the Department approved long-term care cost estimate dated: N/A

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate:
N/A	x	N/A	=	N/A

Number of Years of Long Term Care Remaining: x N/A

Inflation Adjusted Long-Term Care Cost Estimate: = N/A

☐ **(b) Recalculate Estimates** (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of Engineer

KENNETH W. CARGILL, P.E. PRINCIPAL
Name & Title (please type)

54435
Florida Registration Number (affix seal)

GEOSYNTEC CONSULTANTS
14055 RIVEREDGE DR. SUITE 300 TAMPA, FL 33637
Mailing Address

(813) 558-0990
Telephone Number

Signature of Owner/Operator

TIMOTHY J. SALOPEK, PRESIDENT
Name & Title (please type)

(407) 957-7284
Telephone Number

tjsomni@aol.com
Owner/Operator E-Mail Address

Kcargill@geosyntec.com
Engineer E-Mail Address

V. RECALCULATE ESTIMATED CLOSING COST

For the time period in the landfill operation when the extent and manner of its operation makes closing **most expensive**.

**** Third Party Estimate / Quote must be provided for each item**

**** Costs must be for a third party providing all material and labor**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells *	(Do not include wells already in existence.)			
	EA	N/A	WELLS TO BE INSTALLED PRIOR TO TAKING WASTE	
2. Slope and Fill (bedding layer between waste and barrier layer): *				
Excavation	CY			
Placement and Spreading	CY	84,975	$ 6.50	$ 552,338
Compaction	CY			
Off-Site Material	CY			N/A
Delivery	CY			N/A
			Subtotal Monitoring Wells :	$ 552,338
3. Cover Material (Barrier Layer): *				
Off-Site Clay	CY			N/A
Synthetics - 40 mil TEXTURED PE GEOMEMBRANE	SY	143,316	$ 5.50	$ 788,238
Synthetics - ~~GCL~~ 40 MIL SMOOTH PE GEOMEMBRANE	SY	111,610	$ 5.00	$ 558,050
Synthetics - ~~Geonet~~ GEOCOMPOSITE	SY	143,316	$ 4.50	$ 644,922
Synthetics - Other	SY			N/A
			Subtotal Barrier Layer Cover:	$ 1,991,210
4. ~~Top Soil~~ VEGETATIVE SOIL Cover: *				
Off-Site Material	CY			N/A
Delivery	CY			N/A
Spread	CY	42,488	$ 4.00	$ 169,952
			Subtotal Top Soil Cover:	$ 169,952

* SEE ATTACHED NOTES AND CALCULATIONS

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer *				
Sodding	SY			N/A
Hydroseeding	AC			
Fertilizer	AC	53 ACRES	$ 2,000/ACRE	$ 106,000
Mulch	AC			
Other	SY			N/A
			Subtotal Vegetative Layer:	$ 106,000
6. Stormwater Control System: *				
Earthwork	CY	20,000	$ 6.50	$ 130,000
Grading	SY			N/A
Piping / CONNECTORS	LF			$ 17,247
Ditches	LF			N/A
Berms	LF			N/A
Control Structures	EA	6	$ 1,884	$ 11,304
Other	LS			N/A
			Subtotal Stormwater Controls:	$ 158,551
7. Gas Controls: ~~Passive~~ ACTIVE *				
Wells	EA	19	$ 95.75/ft	$ 90,963
Pipe and Fittings	LF			
Monitoring Probes	EA	11	$ 50/ft	$ 11,000
NSPS/Title V requirements	LS			N/A
			Subtotal Passive Gas Control:	$ 101,963

* SEE ATTACHED NOTES AND CALCULATIONS

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction *				
Traps	EA	1	$ 850	$ 850
Sump	EA	1	$ 7,500	$ 7,500
Flare Assembly	EA	1	$ 76,550	$ 76,550
Flame Arrestor	EA	1	$ 4,000	$ 4,000
Mist Eliminator	EA	1	$ 3,900	$ 3,900
Flow Meter	EA	1	$ 4,200	$ 4,200
Blowers	EA	1	$ 17,000	$ 17,000
Collection System	~~LF~~ LUMP SUM			$ 21,413
Other (describe)				N/A
			Subtotal Active Gas Extraction:	$ 135,413
9. Security System: *				
Fencing	LF	LUMP SUM COST		N/A
Gate(s)	EA			$ 5,000
Sign(s)	EA			N/A
			Subtotal Security System:	$ 5,000
10. Engineering: *				
Closure Plan report	LS			N/A
Certified Engineer	LS			N/A INCLUDED IN CERTIFICATION REPORT
NSPS/Title V Air Permit	LS			N/A
Final Survey	LS	1	$ 7,500	$ 7,500
Certification of Closure	LS	1	$ 16,500	$ 16,500
Other (detail) CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS		1	$ 52,000	$ 52,000
			Subtotal Engineering:	$ 76,000

* SEE ATTACHED NOTES AND CALCULATIONS

11. Professional Services *

	Contract Management Hours	Contract Management LS	Quality Assurance Hours	Quality Assurance LS	Total
P.E. Supervisor		N/A		N/A	N/A
On-Site Engineer		N/A		N/A	N/A
Office Engineer		N/A		N/A	N/A
On-Site Technician		N/A		N/A	N/A
Other (explain)		$ 128,817		$ 225,430	$ 354,247

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	1	$ 128,000	$ 128,000

Subtotal Professional Services: $ 482,247

Subtotal of 1-11 Above: $ 3,778,674

12. Contingency * 10 % of Total $ 377,867

Closing Cost Subtotal: $ 4,156,541

13. Site Specific Costs (explain) *

Mobilization	$ 161,021
Waste Tire Facility	N/A
Materials Recovery Facility	N/A
Special Wastes	N/A
Leachate Management System Modification	N/A
Other	N/A
	N/A

Subtotal Site Specific Costs: $ 161,021

TOTAL CLOSING COSTS $ 4,317,562

* SEE ATTACHED NOTES AND CALCULATIONS

VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

_____ 5 Years _____ 20 Years X 30 Years _____ Other

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

**** Third Party Estimate / Quote must be provided for each item**
**** Costs must be for a third party providing all material and labor**

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A)

Description	Sampling Frequency (events/yr.)	Number of Wells	$ / Well / Event	$ / Year
1. Groundwater Monitoring (62-701.510(6), and (8)(a)) *				
Monthly	12			N/A
Quarterly	4			N/A
Semi-Annual	2	45	$ 495	$ 44,550
Annual	1			N/A
			Subtotal Groundwater Monitoring:	$ 44,550
2. Surface Water Monitoring (62-701.510(4), and (8)(b) *				
Monthly	12			N/A
Quarterly	4			N/A
Semi-Annual	2			N/A
Annual	1			N/A
			Subtotal Surface Water Monitoring:	N/A
3. Gas Monitoring *				
Monthly	12			N/A
Quarterly	4	1 EVENT	$ 750 / EVENT	$ 3,000
Semi-Annual	2			N/A
Annual	1			N/A
			Subtotal Gas Monitoring:	$ 3,000

* SEE ATTACHED NOTES AND CALCULATIONS

Description	Sampling Frequency (events/yr.)	Number of Locations	$/Location/Event	$ / Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8)(c) *				
Monthly	12			N/A
Quarterly	4			N/A
Semi-Annual	2			N/A
Annual	1	4	$ 1,268	$ 5,072
Other				N/A
			Subtotal Leachate Monitoring:	$ 5,072

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance *				
Maintenance				
Collection Pipes	LF			$ 1,333
Sumps, ~~Traps~~ PUMPS	EA			$ 1,733
Lift Stations	EA			N/A
Cleaning	LS			N/A
Tanks	EA			N/A
Impoundments				
Liner Repair	SY			$ 800
Sludge Removal	CY			N/A
Aeration Systems	CY			N/A
Floating Aerators	EA			N/A
Spray Aerators	EA			N/A
Disposal				
Off-site (Include Transportation and Disposal)	LUMP SUM ~~1000 gallon~~			$ 175

* SEE ATTACHED NOTES AND CALCULATIONS

6. Leachate Collection/Treatment Systems Operation *

Operation		Hours	$/Hour	Total
P.E. Supervisor	HR			N/A
On-Site Engineer	HR			N/A
Office Engineer	HR			N/A
OnSite Technician	HR	156	$ 50	$ 7,800
Materials	LS			N/A

Subtotal Leachate Collection/Treatment System Maintenance & Operation: $ 11,841

7. Maintenance of Groundwater Monitoring Wells *

Monitoring Wells	LF			N/A
Replacement	EA			$ 350
Abandonment	EA			N/A

Subtotal Groundwater Monitoring Well Maintenance: $ 350

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST

8. Gas System Maintenance *

Piping, Vents	LF			N/A
Blowers	EA			$ 1,200 / 30 yrs
Flaring Units	EA			$ 850 / 30 yrs
Meters, Valves	EA			$ 600 / 30 yrs
Compressors	EA			$ 300 / 30 yrs
Flame Arrestors	EA			$ 250 / 30 yrs
Operation	LS			N/A

SubTotal Gas System: $ 106 /yr

9. Landscape *

Mowing	AC	60 ACRES x 4 TIMES/YR	$ 100	$ 24,000
Fertilizer	AC			N/A

Subtotal Landscape Maintenance: $ 24,000

* SEE ATTACHED NOTES AND CALCULATIONS

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	500	$1.80	$900
Regrading	AC			N/A
Liner Repair	SY	1 EVENT	$1,200	$1,200
Clay	CY			N/A
		Subtottal Erosion Control and Cover Maintenance:		$2,100
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	1	$2,000	$2,000
		Subtotal Storm Water System Maintenance:		$2,000
12. Security System Maintenance				
Fences	LF	100	$7.50	$750
Gate(s)	EA	1	$310	$310
Sign(s)	EA	2	$17	$34
		Subtotal Security System:		$1,094
13. Utilities *	LS			$12,000
14. Administrative *		Hours	$/Hour	Total
P.E. Supervisor	HR			N/A
On-Site Engineer	HR			N/A
Office Engineer	HR			N/A
OnSite Technician	HR			N/A
Other (explain)				$13,000
		Subtotal Administrative:		$13,000
15. Contingency	10 % of Total	10% OF $119,113		$11,911
		Subtotal Contingency:		$11,911

* SEE ATTACHED NOTES AND CALCULATIONS

16. Site Specific Costs (explain)	UNIT COST	
	LS	N/A
	LS	N/A
	LS	N/A

ANNUAL LONG-TERM CARE COST ($/Year): # 131,024

NUMBER OF YEARS OF LONG-TERM CARE 30

TOTAL LONG-TERM CARE COST ($) # 3,930,720

Oak Hammock Disposal

Notes and Calculations to Accompany 2002 Financial Cost Estimate

The items listed below were derived by item/ unit pricing from contractors and manufacturers. Any estimated or assumed quantities are based on State and Federal guidelines. All estimated costs are for work to be performed by a third party.

Closure Costs

1. **Monitoring Wells**

   Ground water monitoring wells will be installed during construction of Phase I (i.e., Cells 1 – 4) and, therefore are not included as part of the closure construction estimate.

2. **Slope and Fill** (Intermediate Cover)

   During construction of the first phase, borrow area soils will be used for future use as initial/intermediate cover. CADD estimated cubic yardage is 84,975 cy for 1 ft. of intermediate cover over waste surface.
   Cost per cubic yard includes excavation, hauling, placement, spreading and compaction.
   84,975 cy @ $6.50 / cy = $ 552,338

3. **Cover Material (Barrier Layer)**

   The final cover system for the Phase I cells is comprised of (from bottom to top) 40-mil PE textured (4:1 slopes) and smooth (5% grades) geomembrane, geocomposite drainage layer on 4:1 side slopes and 18 inch layer of cover protective soil. Cover protective soil will consist of material obtained from on-site borrow area. Cost for cover protective soil includes excavation, hauling, placement, spreading and compaction. Cost for geosynthetics includes material and installation costs. CADD generated quantities are:
   127,463 cy soils @ $6.50 cy = $828,510
   143,316 sy 40-mil PE textured geomembrane @ $5.50 sy = $788,238
   111,610 sy 40-mil PE smooth geomembrane @ $5.00 sy = $558,050
   143,316 sy geocomposite drainage layer @ $4.50 sy = $644,922
   Total = $1,991,210

Closure Costs (Continued)

4. **Top Soil Cover (Vegetative Soil Layer)**

Vegetative soil layer material will be stripped from the Phase I footprint area and stockpiled on-site for use in the cover system. Vegetative soil layer material will also be available from adjacent future cells (i.e., cells 5 – 21). The vegetative soil layer consists of 6 in. layer over entire cover area. Cost per cubic yard includes hauling, placing and spreading. CADD generated quantity: 42,488 cy.
42,488 cy @ $4.00 = $169,952

5. **Vegetative layer**

The final cover area will be hydro-seeded. Hydro-seeding cost includes all labor and materials. CADD generated quantity: 53 acres
53 acres x $ 2,000/ acre = $ 106,000.

6. **Stormwater Control System**

The perimeter and site storm water control system components will be installed as part of the landfill construction and therefore are not included as part of the closure construction estimate. Storm water control components for the Phase I closure will consist of drainage swales, drains and HDPE corrugated pipe downchutes. Drainage swales will be constructed as part of protective cover soil placement and grading. Additional earthwork associated with installation of drains and downchutes is estimated to include 20,000 cy. Earthwork estimate is to include excavation, backfilling and compaction.
Earth work: 20,000 cy @ $6.50 cy = $ 130,000
Piping: 180 lf of 36" HDPE pipe @ $26.28/ft = $4,730
840 lf of 24" HDPE pipe @ $13.24/ft = $11,122
3 x 24" "T" connector @ $430 ea. = $1,290
6 x 24" couplers @ $17.54 ea. = $105
Each downchute requires an energy dissipater (total of 6) @ $1,884 ea. = $11,304
Total cost = $158,551

7. **Gas Controls: Active System**

The Oak Hammock Disposal facility will have an active gas extraction system installed. Nineteen gas extraction wells are to be installed as part of the gas control system. Cost per well: $95.75/ft. Cost per foot includes all labor and materials for installation. Landfill gas monitoring probes will be installed at a minimum spacing of 500 lf around the perimeter of the landfill. Cost per monitoring probe: $50/ft, cost per foot includes all labor and materials for installation.
Gas extraction well installation cost = $95.75/ft x 50 ft. (average depth) x 19 wells = $90,963.

Closure Costs (Continued)

Landfill gas monitoring probe installation cost = $50/ft x 20 ft. (average depth) x 11 = $11,000

8. Gas Control: Active System

Active gas system components based on permit design package. Components and associated costs are listed below. Costs include labor and materials.

1 Trap @ $850
1 Sump @ $7,500
1 Flare Assembly @ $76,550
1 Flame Arrestor @ $4,000
1 Mist Eliminator @ $3,900
1 Flow Meter @ $4,200
1 Blower @ $17,000
Main header pipe: 500 lf 12" solid wall SDR-17 HDPE pipe installed @ $8.76 lf = $4,380
Header pipe: 3,065 lf 8" solid wall SDR-17 HDPE pipe installed @ $3.98 lf = $ 12,199
Collector pipe: 2,912 lf 4" solid wall SDR-17 HDPE pipe installed @ $ 1.66 lf = $ 4,834
Total Active Gas Extraction = $ 135,413

9. Security System

Perimeter fencing, gates and signs will be repaired, if required for closure. A $5,000 lump sum allowance has been estimated for this work. Note that perimeter fencing and gates will be installed as part of the Phase I construction and therefore have not been included as part of the closure costs. Closure signs will be installed as required.

10. Engineering

Certification report to include preparation of report and certification by Florida registered professional engineer: $ 16,500.
Other: Construction Drawings and Technical Specifications: $52,000

11. Professional Services

Estimate that 4% of construction cost will be needed for contract/construction management i.e., 0.04 x $3,220,427 = $128,817

Closure Costs (Continued)

Estimate that 7% of construction cost will be needed for construction quality assurance i.e., 0.07 x $3,220,427 = $225,430

Quality Assurance testing based on requirements of CQA Plan and estimated quantities.

12. Contingency

Estimate contingency of 10 % of closure cost.

13. Site Specific Costs:

Contractor mobilization estimated to be 5 % of construction cost, not including professional services costs (i.e., 5% of $3,220,427) = $161,021.

Annual Costs for Long Term Care

1. Ground Water Monitoring

Forty-five ground water monitoring wells are to be installed for Phase I construction. Assume that all wells are sampled on semi-annual basis per F.A.C. Cost to sample each well: $495. Cost includes all labor, equipment and laboratory analyses required per F.A.C.
45 x $495 = $22,275 x 2 times/year = $44,550 /year

2. Surface Water Monitoring

The Oak Hammock facility has been designed to retain all water from a 100-year storm event on-site. No off-site discharge of surface water is anticipated, therefore, no associated monitoring costs have been included.

3. Landfill Gas Monitoring

Landfill gas monitoring probes will be installed a minimum of 500 lf around the perimeter of Phase I construction as part of the closure plan. The monitoring probes will be monitored quarterly for concentrations of combustible gases. Quarterly landfill gas monitoring cost: $750 /event x 4 events/year = $3,000 year

4. Leachate Monitoring

Phase I of the Oak Hammock Disposal consists of four cells. A leachate sample would be collected from each cell annually. Each leachate sampling cost includes all labor, equipment and laboratory analyses required per F.A.C. Annual leachate monitoring cost: $1,268 /leachate sample x 4 leachate samples/year = $5,072 year.

5. Leachate Collection/Treatment System Maintenance

For the long term care, assume the following maintenance activities.
Leachate collection pipes: Estimate that each cell will require one cleaning within the 30-year monitoring period. 4 cells x $10,000 cell = $40,000 / 30 years = $1,333 /year.
Leachate pumps: Estimate pumps require annual maintenance and each cell will require a replacement pump during the 30-year monitoring period. Annual maintenance = 4 cells x $250/cell = $1,000 /year. Leachate pump replacement cost = 4 pumps x $5,500/pump /30 years = $733. Estimated annual cost for pumps = $1,733

Leachate storage containers: Assume each of the three flexible storage bladders will require replacement over the 30 year monitoring period. Replacement cost of $8,000 per flexible bladder. 3 bladders x $8,000 /bladder / 30 years = $800 /year.

Annual Costs for Long Term Care (Continued)

Leachate disposal: After closure, for each cell estimate leachate production rate of 1.0 gal/day x 365 days/year x 4 cells = 1,460 gallons of leachate/year x $.12 / gallon for transportation and treatment = $175/year.
Total leachate system maintenance = $4,041 /year.

6. Leachate Collection/Treatment Systems Operation

Estimate that leachate system operation is monitored on a weekly basis by a technician for total of 3 hours/week x 52 weeks/year x $50 /hour = $7,800/year.

7. Maintenance of Groundwater Monitoring Wells

Estimate that 3 wells require abandonment and replacement within the 30-year monitoring period. Abandonment cost: $500 per well x 3 wells = $1,500 / 30 years = $50 /year. Replacement cost: 60 ft x 50 /ft x 3 wells = $9,000 / 30 years = $300/ year. Total estimated annual cost = $350 /year

8. Gas System Maintenance

Estimate that the equipment listed on DEP form will require replacement once within the 30-year maintenance period. Annual cost = $3,200 / 30 years = $106 /year.

9. Landscape

Estimate 60-acre area requiring maintenance and that the grass will require cutting four times/year at a cost of $100 per acre. Mowing/maintenance: 4 times year x 60 acres x $100/acre = $24,000

10. Erosion Control and Cover Maintenance

As indicated on DEP form.

11. Storm water Management System Maintenance

As indicated on DEP form.

12. Security System Maintenance

As indicated on DEP form.

Annual Costs for Long Term Care (Continued)

13. Utilities

Estimate power requirements for site equipment (i.e., pumps, lights, blowers, etc.) to be $1,000 /month x 12 months = $12,000 /year.

14. Administrative

Estimate that lump sum administrative/overhead costs for Phase I: = $13,000 /year.

15. Contingency

Estimate contingency of 10 % of total long term annual care cost (i.e., 0.10 x $119,113 = $11,911 / year).

Williams, Elizabeth

From: Bradner, James
Sent: Thursday, July 18, 2002 1:30 PM
To: 'kcargill@geosyntec.com'
Cc: Cheryan, George; Williams, Elizabeth
Subject: Oak Hammock Disposal Facility

Good afternoon, Ken:

It was a pleasure meeting with you yesterday, and I appreciate your assistance in sending the results of the liner comparison study to Richard Tedder. We spoke by phone today, and he asked me to let you know that he was looking forward to receiving the information.

George Cheryan and I have reviewed your reply to my June 17 letter, and found your responses to be satisfactory. In the interim, we received the following comment from our colleague Lee Martin in Tallahassee:

"On sheet 31 of 50, detail 16/31, there seems to be very little expansion capability in the flexible boot for the gas collection wells. Once the 20' of waste under the well settles and compacts, the well may become more or less stationary while the waste above and the cap continue to settle. The narrative indicated settlement of up to 2' at the peak. Since the detail is not to scale, it is hard to tell if the clamp connecting the boot will be visible after the final cover is in place and have the capability of being adjusted as settlement takes place and I couldn't find any inspection requirement in the operations plan after the cap is complete to ensure the boot does not pull away from the liner or the gas collection well. This is something they may want address with a different type of boot or additional inspection requirements."

Rather than send an additional request for information, I would appreciate your response either by email or telephone. I expect you or Bill will have the answer readily available, or would be willing to discuss whether any minor design changes are necessary.

Thanks again, and I will look forward to hearing from you.

Regards,

Jim Bradner

Department of
Environmental Protection

Osceola County SW
Osceola Landfill

Central District
3319 Maguire Blvd, Ste 232
Orlando FL 32803

MEETING ATTENDANCE RECORD

Purpose: Omni Waste of Osceola County LF

Date: July 17 2002

Name (Please Print):	Affiliation & Phone Number	(Include Area Code)
Scott Wesson	FDEP (ERP)	407-893-3312
Kellie Boston	FDEP "	407-893-3317
John Bailey	Biological Research Assoc.	813-664-4500
David Dee	Landers + Persons	850-681-0311
Lenny Marcon	OSCEOLA County	407-847-4481
Ken Cargill	GeoSyntec Consultants	813 558 0990
HARRY TOMLINSON	GEOSYNTEC	(561) 995-0900
Sharon Stanfill	Omni Waste	407-957-7284
WILLIAM J. KOZUH	OMNI WASTE	"
SAID IRAVANI	GeoSyntec	813-558-0990
Jim Bradner	FDEP Solid + Haz. Waste	407-893-3329
BILL BOSTWICK	FDEP WASTE MGT.	407 893-3327
Tamy Dabu	FDEP	407-893-3324

Cheryan, George

From: Tedder, Richard
Sent: Monday, July 15, 2002 9:50 AM
To: Cheryan, George
Cc: Bradner, James; Martin, Lee
Subject: Oak Hammock Landfill: SC49-0199726-001, SO49-0199726-002

George,

I have reviewed the comments dated June 28, 2002 in response to your RAI for the Oak Hammock Landfill project. I am OK with their response to the question on slope stability I sent you earlier. Just wanted you to know. Thanks. - RT

Florida Department Of

Memorandum

Environmental Protection

CENTRAL DISTRICT

TO: Jim Bradner, P.E.

FROM: Deborah Helle, P.G.

DATE: July 8, 2002

SUBJECT: Oak Hammock New Class I Permit RAI 1 Review

I have reviewed the referenced document. My RAI questions have been answered satisfactorily.

Florida Department of

Memorandum

Environmental Protection

TO: ~~Deborah Helle, P.G.~~ R. TEDDER P.E. / LEE MARTIN, P.E

FROM: Jim Bradner, P.E.

DATE: July 8, 2002

SUBJECT: County: OSCEOLA

Permit/~~OGC~~: SC49-0199726-001 & SC49-0199726-002

Facility: OAK HAMMOCK DISPOSAL, CLASS I - CONSTR & OPERATE

Attachment: ✓

The attached is being sent to you for:

____ Information only

✓ Review and comments

If review comments are needed, please respond:

✓ By:
(Solid Waste deadline is July 22, 2002)

____ As soon as possible for your schedule.

Comments: _____

Florida Department of

Memorandum

Environmental Protection

TO: Deborah Helle, P.G.

FROM: Jim Bradner, P.E.

DATE: July 8, 2002

SUBJECT: County: Osceola

Permit/~~OGC~~: SC49-0199726-001 & SC49-0199726-002

Facility: OAK HAMMOCK DISPOSAL, CLASS I - CONSTR & OPERATE

Attachment: ✓

The attached is being sent to you for:

____ Information only

✓ Review and comments

If review comments are needed, please respond:

✓ By:
(Solid Waste deadline is July 22, 2002)

____ As soon as possible for your schedule.

Comments: _____

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

28 June 2002

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

Subject: Addendum 1, Construction/Operation Permits
Oak Hammock Disposal Facility
Permit Application Nos. SC49-0199726-001 and SO49-0199726-002
Omni Response to FDEP Request for Additional Information

Dear Mr. Bradner:

The purpose of this letter is to address the request for additional information (RAI) on the above referenced permit applications from the Florida Department of Environmental Protection (FDEP). The RAI were addressed to Mr. Timothy J. Salopek by letter dated 17 June 2002. An original and five copies of this response to the RAI are being provided to FDEP so that the response can be incorporated into each of the five copies of the permit application previously submitted. Each RAI has been reproduced in italic font below and the response to the RAI is given in normal font.

Item 1:

Submit proof of publication of Notice of Application that was published in a newspaper of general circulation in the area where the facility will be located for a permit to construct and operate a Class I landfill to be known as the Oak Hammock Disposal

Response:

A Notice of Application was published in the Osceola section of the Orlando Sentinel on Wednesday, 22 May 2002. A copy of the proof of publication is submitted as Attachment 1.

Item 2:

Submit proof of receipt of Notice of Application to the Chair of the Board of County Commissioners and the State Senator and Representative serving the jurisdiction in which the Class I landfill to be known as the Oak Hammock Disposal will be located.

Response:

On 22 May 2002, Notice of Application was sent to the Chair of the Osceola County Board of County Commissioners (Honorable Paul Owen), the State Senator (Honorable Howard E. Futch), and State Representative (Honorable Frank Attikisson) serving the jurisdiction in which Oak Hammock Disposal will be located. Proof of receipt is submitted herewith as Attachment 2.

Item 3:

Vol. 1, Page 10, Section 2.7.2 states the construction and demolition debris and other waste classified as Class I waste may be disposed in the OHD landfill. Provide a description of the construction and demolition debris and other waste that will be disposed in the OHD Class I landfill.

Response:

Only wastes classified as Class I solid waste will be disposed at Oak Hammock Disposal facility. Based on recently issued FDEP guidance, it is understood that CCA-treated lumber may be classified as Class I solid waste. Construction and demolition debris (C&D) meets the definition of Class I solid waste and the facility will accept C&D. Clean debris consisting of asphalt and concrete may be accepted and stored at the landfill for use for on-site road construction and maintenance.

Item 4:

Item A-12, on Page 5 of 40, DEP Form 62-701.900(1) needs to be completed. Submit the revised page.

Response:

A revised Page 5 of 40, DEP Form 62-701.900(1) is submitted as Attachment 3.

Population given in Item A-12 considers that the facility primarily will serve the needs of the citizens of Osceola County and possibly may serve the needs of surrounding counties. According to population figures available from the Osceola

County Planning Department, the County had a population of 172,493 in 2001 and the projected population for the county area in the year 2010 is projected to be 231,500, which leads to a five-year projection of about 211,831 (year 2007). According to the Florida Association of Counties, surrounding counties had a population of over 2,000,000 in 2001. The surrounding counties would have a population of about 2,456,000 in 2007 using the Osceola County rate of growth. Therefore, the current and projected population is about 2.2 million and 2.7 million respectively in the potential service area.

The date given in Item A-13 considers that the initial landfill cell is estimated to be completed and ready for inspection between March and June of 2003.

Item 5:

Items B-2 and B-16 on Pages 6 and 7 of 40, on DEP Form 62-701.900(1) needs to be completed. Submit the revised pages.

Response:

Revised Pages 6 and 7 of 40, DEP Form 62-701.900(1), including completed Items B-2 and B-16, are submitted as Attachment 4. The facility site supervisor is Mr. Timothy J. Salopek, President, Omni Waste of Osceola County, LLC (Item B-2). The working face will be covered at the end of each working day (Item B-16).

Item 6:

Vol. 1, Page 21, Section 4.2.1 states that leachate will be transported by truck to a wastewater treatment plant. 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.

Response:

Leachate will be transported by truck to the city of St. Cloud Wastewater Treatment Plant located at 2800A Lakeshore Blvd., St. Cloud, Florida 34769. Mr. Ray Tobey is the contact person, and he can be reached at 407-957-7263.

Item 7:

Vol. 1, Page 2, Section 1.2 states that the OHD site is located in Sections 11, 13 and 14 and Sections 17 and 18. The site ownership in Appendix C refers to Sections 13 and 14, and Section 18. Page 4 of 40, DEP Form 62-701.900(1) refers to Sections 11 and 14. Please clarify.

Response:

The Oak Hammock Disposal facility will encompass all of Sections 13 and 14 and portions of Sections 11, 17, and 18 as shown on Sheet 2 of 50 of the permit drawings. Omni owns all of Section 11 (see Attachment 5) but is permitting only the western portion as shown on Sheet 2 of 50 of the permit drawings. Omni holds options to purchase all of Sections 13 and 14 and the relevant portions of Sections 17 and 18. Under the option agreements, Omni has the right to acquire these areas upon issuance of an FDEP permit to construct the Class I landfill. A letter from the current property owner (Bronsons) confirming that Omni has legal authorization from the owner to use the site for a solid waste management facility is also enclosed herewith in Attachment 5.

Page 4 of 40 of the FDEP form refers only to Sections 11 and 14 because these sections contain the footprint of the landfill.

Item 8:

Vol. 1, Page 7, Section 2.2 states that yard trash, white goods, and whole tires will be accepted for processing, reuse or recycling. Submit details.

Response:

For the convenience of the individual public users, a drop-off center, consisting of separate roll-off boxes for each type of waste, will be established at the Oak Hammock Disposal facility in the designated area near the scale house as shown on Sheet 43 of 50 of the permit drawings. Residents will be allowed to drop off typical household quantities of yard trash, white goods, and whole tires. However, these materials will not be disposed, processed, or reused at the Oak Hammock Disposal facility except as discussed below. These items will be shipped to off-site licensed disposal or recycling facilities whenever the designated roll-off box is full.

Omni may choose from time to time to process whole tires for use as a liner protective layer as indicated on Sheet 14 of 50 of the permit drawing. Omni will obtain a permit modification for processing the material, if required.

Omni plans to "chip" yard waste and other similar materials from time to time. The finished products will be either offered to the public, used as augmentation of on-site soils for final cover soils, if needed, or shipped to off-site licensed disposal or recycling facilities.

The required records of monthly, quarterly and annual reports required by the regulations will be kept current and available for FDEP inspection for 3 years for all of these activities as described in the permit application.

Item 9:

Vol. I of III is not signed and sealed by a professional engineer registered in the state of Florida. Submit Vol. I of III signed and sealed by a professional engineer registered in the state of Florida.

Response:

Submitted herewith as Attachment 6 are cover sheets for the narrative portion of the permit application, which have been signed and sealed by a professional engineer registered in the state of Florida. Please substitute these cover sheets for the cover sheet submitted with the permit application. The FDEP Form No. 62-701.900(1), all calculation packages, and all permit drawings have been previously signed and sealed.

Item 10:

Will a potable water well be installed on the site for the office and other potable uses?

Response:

Omni plans to provide bottled water for all drinking water and other potable water needs on site. Omni plans to provide a water supply well for all non-drinking water supply needs. The application for the location and construction of this well will be made by Omni to Osceola County during the construction of the facility. The non-drinking water supply well will provide water for the offices and scale house needs such as hand washing and toilet/shower facilities. Non-potable water also will be obtained on site from borrow areas and will be used for dust control, soil compaction and other miscellaneous needs.

Item 11:

Locate the office and scales on the map.

Response:

The office and scales are shown on Sheet 43 of 50 of the permit drawings, which were submitted with the permit application on May 24, 2002

Item 12:

On Sheet 41 of 50, the sideslope of the drainage swale is steeper than 3 horizontal to 1 vertical. Please explain how erosion of this swale will be controlled so that there will be no damage to the final cover.

Response:

At an inclination for 2H:1V, the sideslope of the proposed typical final cover drainage swale is steeper than 3H:1V (the maximum allowable slope for a landfill cover). However, the average slope of the landfill cover is 4H:1V. Because the length of the proposed drainage swale sideslope is only approximately 12 feet, erosion can be adequately controlled with vegetation. The final cover sideslopes exceeding 3H:1V, including the drainage swales as indicated on Sheet 41 of 50 of the permit drawings, will be covered with Argentinean Bahia grass sod in accordance with Technical Specification Section 02930, presented in Appendix P of the permit application. GeoSyntec's experience indicates that with proper irrigation and maintenance as described in the Operation Plan presented in Appendix O of the permit application, the sod will provide adequate protection against erosion.

Item 13:

Financial responsibility arrangements for the facility are to be made with the Financial Coordinator, Solid Waste Section, Department of Environmental Protection, MS-4565, 2600 Blair Stone Road, Tallahassee, FL 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 32803-2767.

Response:

Omni has been in contact with Mr. Fred Wick, the Financial Coordinator, Solid Waste Section, in Tallahassee to address this issue as suggested. However, Omni

requests that FDEP issue the construction/operation permit conditioned on the proof of arrangement for financial responsibility for the facility. FDEP regulations provide for this arrangement be in place 60 days prior to acceptance of any solid waste at the facility. Omni requests FDEP to issue a landfill construction permit subject to the following condition: "A financial mechanism for Oak Hammock Disposal shall be created, and alternate financial mechanisms (if any) shall be fully funded, at least 60 days prior to the acceptance of any solid waste at the facility."

Omni believes this condition is appropriate because Omni expects a construction period of 6 months to a year for the initial phase of this facility and because the condition is consistent with the provisions of Section 62-701.630(2)(b), F.A.C. There will be adequate time to create the financial mechanism and obtain FDEP approval and activation of said mechanisms prior to accepting waste.

If you or your staff has any further questions or need additional information, please feel free to contact the undersigned.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

Attachments

Copy: Timothy J. Salopek, Omni Waste
David S. Dee, Landers and Parsons
Bill Kozuh, Omni Waste
Jerry Kubal, Kubal-Furr & Associates
Steve Godley, BRA

ATTACHMENT 1

Orlando Sentinel

Published Daily

State of Florida } S.S.
COUNTY OF ORANGE

Before the undersigned authority personally appeared DEBORAH TONEY, 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 OAK HAMMOCK DISPOSAL in the OSCEOLA Court, was published in said newspaper in the issue; of 05/22/02

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 23 day of MAY, 20 02, by DEBORAH TONEY, who is personally known to me and who did take an oath.

(SEAL)

OFFICIAL NOTARY SEAL
JULIA NICHOLS
NOTARY PUBLIC STATE OF FLORIDA
COMMISSION NO. DD054311
MY COMMISSION EXP. SEPT 23,2005

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
NOTICE OF APPLICATION

The Department of Environmental Protection announces receipt of an application for permit from Omni Waste of Osceola County, LLC to construct and operate a Class I landfill to be known as Oak Hammock Disposal. This project is located approximately five miles south of Holopaw, Osceola County, Florida on the west side of highway U.S. 441.

This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays at the Department of Environmental Protection, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767, telephone (407) 893-3328. Any comments or objections should be filed in writing with the Department at this address. Comments or objections should be submitted as soon as possible to ensure that there is adequate time for them to be considered in the Department decision on the application.
OSCL4474868 May 22, 2002

ATTACHMENT 2

GeoSyntec Consulta
rive, Suite 300
a 33637 • USA
813) 558-9726

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insura. Coverage Provided)

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

7002 0510 0003 0581 6046

Sent To FUTCH
Street, Apt. No.; or PO Box No. 134 5th Ave #103
City, State, ZIP+4 INDIALANTIC, FL 32903

PS Form 3800, January 2001 See Reverse for Instructions

Honorable Howard E. Futch
State Senator
District 18
134 Fifth Avenue, Suite 103
Indialantic, Florida 32903

Certified Mail No. 7002 0510 0003 0581 6046

Dear Senator Futch:

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 a new "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials). The landfill will be located in unincorporated 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, State Representative Frank Attkisson, and Mr. Paul Owen, the Chairman of the Board of County Commissioners of Osceola County. In addition, the attached notice will be published in the Orlando Sentinel.

This firm has been hired to design the landfill and provide other engineering services for Omni. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

KWC:vds
Attachment: Notice of Application

cc: Mr. Lenny Marion, Osceola County
Mr. Ray Tobey, City of St. Cloud
Mr. Timothy J. Salopek, Omni Waste
Mr. James Bradner, P.E., FDEP

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Senator Futch
134 5th Ave, Suite 103
Indialantic, FL 32903

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Helen Franta ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* HELEN FRANTH
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7002 0510 0003 0581 6046 6

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

GEOSYNTEC CONSULT
Drive, Suite 300
ida 33637 • USA
x (813) 558-9726

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

7002 0510 0003 0581 6022

Sent To: Commissioner Owen
Street, Apt. No.; or PO Box No.: 1 Courthouse Square #5700
City, State, ZIP+4: Kissimmee, FL 34741

PS Form 3800, January 2001 — See Reverse for Instructions

Honorable Paul Owen, Chairman
Osceola County Board of County C
1 Courthouse Square, Suite 5700
Kissimmee, Florida 34741

Certified Mail No. 7002 0510 0003

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 a new "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials). The landfill will be located in unincorporated 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, State Senator Howard E. Futch and State Representative Frank Attkisson. In addition, the attached notice will be published in the Orlando Sentinel.

This firm has been hired to design the landfill and provide other engineering services for Omni. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

KWC:vds
Attachment: Notice of Application

cc: Mr. Lenny Marion, Osceola County
Mr. Ray Tobey, City of St. Cloud
Mr. Timothy J. Salopek, Omni Waste
Mr. James Bradner, P.E., FDEP

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Commissioner Owen
1 Courthouse Square
#5700
Kissimmee, FL 34741

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X John Hermann ☐ Agent ☐ Addressee

B. Received by (Printed Name) John Hermann C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7002 0510 0003 0581 6022 2

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

GeoSyntec Consu
redge Drive, Suite 300
, Florida 33637 • USA
) • Fax (813) 558-9726

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance C. age Provided)

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

2002

Sent To: Rep Attkisson
Street, Apt. No.; or PO Box No.: 323 Pleasant St
City, State, ZIP+4: Kissimmee, FL 34741

PS Form 3800, January 2001 — See Reverse for Instructions

7002 0510 0003 0581 6039

Honorable Frank Attkisson
State Representative
District 79
323 Pleasant Street
Kissimmee, Florida 34741-57(

Certified Mail No. 7002 0510 0

Dear Representative Attkisson:

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 a new "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials). The landfill will be located in unincorporated 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, State Senator Howard E. Futch, and Mr. Paul Owen, the Chairman of the Board of County Commissioners of Osceola County. In addition, the attached notice will be published in the Orlando Sentinel.

This firm has been hired to design the landfill and provide other engineering services for Omni. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

KWC:vds
Attachment: Notice of Application

cc: Mr. Lenny Marion, Osceola County
Mr. Ray Tobey, City of St. Cloud
Mr. Timothy J. Salopek, Omni Waste
Mr. James Bradner, P.E., FDEP

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Representative Atkisson
District 79
323 Pleasant St
Kissimmee, FL 34741

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Rose Hernandez ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7002 0510 0003 0581 6039

PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

ATTACHMENT 3

8. Applicant name (operating authority): OMNI WASTE OF OSCEOLA COUNTY, LLC

Mailing address: 100 CHURCH STREET KISSIMMEE FL 34741
Street or P.O. Box City State Zip

Contact person: TIMOTHY J. SALOPEK Telephone: (407) 957-7284

Title: PRESIDENT

tjsomni@aol.com
E-Mail address (if available)

9. Authorized agent/Consultant: GEOSYNTEC CONSULTANTS

Mailing address: 14055 RIVEREDGE DRIVE STE 300 TAMPA, FL 33637
Street or P.O. Box City State Zip

Contact person: KENNETH W. CARGILL, P.E. Telephone: (813) 558-0990

Title: PRINCIPAL AND BRANCH MANAGER

KCargill@geosyntec.com
E-Mail address (if available)

10. Landowner (if different than applicant): _____

Mailing address: _____
Street or P.O. Box City State Zip

Contact person: _____ Telephone: (___) _____

_____
E-Mail address (if available)

11. Cities, towns and areas to be served: OSCEOLA COUNTY AND SURROUNDING COUNTIES

12. Population to be served:

Current: 2,000,000 (2001) Five-Year Projection: 2,456,000 (2007)

13. Date site will be ready to be inspected for completion: Est. Mar - Jun 2003

14. Expected life of the facility: 30 years

15. Estimated costs:

Total Construction: $ 15,376,577 Closing Costs: $ 4,317,562

16. Anticipated construction starting and completion dates:

From: NOVEMBER 2002 To: JANUARY 2007

17. Expected volume or weight of waste to be received:

_____ yds^3/day 1,700 tons/day _____ gallons/day

ATTACHMENT 4

B. **DISPOSAL FACILITY GENERAL INFORMATION**

1. Provide brief description of disposal facility design and operations planned under this application:

THIS PERMIT APPLICATION IS FOR CONSTRUCTION AND OPERATION OF A CLASS I LANDFILL KNOWN AS THE OAK HAMMOCK DISPOSAL FACILITY. UNDER THIS PERMIT, THE INITIAL LANDFILL CELLS, NOS 1 THROUGH 4, WILL BE CONSTRUCTED AND OPERATED. A CONCEPTUAL DESIGN FOR A TOTAL OF 21 CELLS TOTALING 264 ACRES IS SUBMITTED. THE ANTICIPATED LIFE OF THE COMPLETE FACILITY IS 30 YEARS.

2. Facility site supervisor: Timothy J. Salopek

Title: President Telephone: (407) 957-7284

tjsomni@aol.com
E-Mail address (if available)

3. Disposal area: Total 264 acres; Used N/A acres; Available 264 acres.

4. Weighing scales used: [X] Yes [ ] No

5. Security to prevent unauthorized use: [X] Yes [ ] No

6. Charge for waste received: _____ $/yds^3 _____ $/ton

7. Surrounding land use, zoning:

[ ] Residential	[ ] Industrial
[X] Agricultural	[ ] None
[ ] Commercial	[ ] Other Describe: _____

8. Types of waste received:

[X] Residential	[X] C & D debris
[X] Commercial	[ ] Shredded/cut tires
[ ] Incinerator/WTE ash	[ ] Yard trash
[ ] Treated biomedical	[ ] Septic tank
[ ] Water treatment sludge	[ ] Industrial
[ ] Air treatment sludge	[ ] Industrial sludge
[ ] Agricultural	[ ] Domestic sludge
[ ] Asbestos	
[ ] Other Describe: _____	

9. Salvaging permitted: [ ] Yes [X] No UNLESS VOLUME OF RECYCLABLE GOODS IS SUFFICIENT FOR SEPARATION

10. Attendant: [ ] Yes [ ] No Trained operator: [X] Yes [ ] No

11. Spotters: Yes [X] No [ ] Number of spotters used: MINIMUM OF 1 PER WORKFACE

12. Site located in: [X] Floodplain [X] Wetlands [ ] Other _____

13. Property recorded as a Disposal Site in County Land Records: [X] Yes [ ] No

14. Days of operation: MONDAY THROUGH FRIDAY, HALF DAY ON SATURDAY

15. Hours of operation: TYPICAL HOURS : 7:00a.m. - 6:00p.m. M-F; 8:00a.m. - NOON SAT.

16. Days Working Face covered: Each working day.

17. Elevation of water table: 79.0 Ft. (NGVD 1929)

18. Number of monitoring wells: 45

19. Number of surface monitoring points: 4

20. Gas controls used: [X] Yes [ ] No Type controls: [X] Active [ ] Passive

Gas flaring: [X] Yes [ ] No Gas recovery: [ ] Yes [X] No

21. Landfill unit liner type:

[ ] Natural soils
[ ] Single clay liner
[ ] Single geomembrane
[ ] Single composite
[ ] Slurry wall
[ ] Other Describe: ADDITIONAL LOW-PERMEABILITY SOIL LAYER TO BE USED BENEATH SUMP AREAS.
[ ] Double geomembrane
[ ] Geomembrane & composite
[X] Double composite
[ ] None

22. Leachate collection method:

[X] Collection pipes
[X] Geonets (GEOCOMPOSITES)
[ ] Well points
[ ] Perimeter ditch
[ ] Other Describe:
[X] Sand layer
[ ] Gravel layer
[ ] Interceptor trench
[ ] None

23. Leachate storage method:

[ ] Tanks
[X] Surface impoundments WITH FLEXIBLE STORAGE CONTAINERS
[ ] Other Describe:

24. Leachate treatment method:

[ ] Oxidation
[ ] Secondary
[ ] Advanced
[X] None
[ ] Other
[ ] Chemical treatment
[ ] Settling

ATTACHMENT 5

PREPARED BY:
Wm. Patrick Fulford, Esq.
Wright, Fulford, Moorhead & Brown, P.A.
Post Office Box 2828
Orlando, Florida 32802

Record and Return to:
Wm. Patrick Fulford, Esq.
Wright, Fulford, Moorhead & Brown, P.A.
Post Office Box 2828
Orlando, Florida 32802

SPACE ABOVE THIS LINE FOR RECORDING DATA

WARRANTY DEED

THIS WARRANTY DEED made the 14th day of June, 2002, by **EVADNE J. GANNARELLI, a single woman,** who has a mailing address of Coaches Lane, St. Cloud, Florida 34773, hereinafter called the Grantor, to **OMNI WASTE OF OSCEOLA COUNTY LLC, an Ohio limited liability company,** which has a mailing address of Post Office Box 2116, Dayton, Ohio 45401, hereinafter called the Grantee:

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations and public bodies.)

WITNESSETH

THAT THE GRANTOR, for and in consideration of the sum of $10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the Grantee, all that certain land situate in Osceola County, Florida, more particularly described to wit:

SEE EXHIBIT "A" ATTACHED HERETO AS LEGAL DESCRIPTION

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2001.

SUBJECT TO all easements, restrictions, reservations and right-of-ways of record.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence in the presence of:

Sign Darcey E. Durant, CLA
Print Darcey E. Durant, CLA

Sign
Print Wm. Patrick Fulford

Evadne J. Gannarelli
EVADNE J. GANNARELLI

STATE OF
COUNTY OF

The foregoing instrument was acknowledged before me this 14th day of June, 2002, by EVADNE J. GANNARELLI, who is personally known to me or has produced FDL# G564-200-50-963-0 as identification.

Darcey E. Durant, CLA
Printed Darcey E. Durant, CLA
Notary Public, State of Florida

DARCEY E. DURANT
MY COMMISSION # CC 884020
EXPIRES: December 27, 2003
Bonded Thru Notary Public Underwriters

EXHIBIT "A"

PARCEL 1

All of Sections 1 and 2, Township 28 South, Range 32 East, Osceola County, Florida, lying West of U.S. Highway 441, LESS

Beginning at the intersection of the North line of Section 1, Township 28 South, Range 32 East, Osceola County, Florida and the Westerly right of Way line of U.S. Highway No. 441, said Right of Way line being 50.00 feet West of the centerline of the existing roadway, run North 89 degrees 52 minutes 01 seconds West, along the North line of said Section 1, 1438.76 feet to a 4" x 4" concrete monument marking the Southwest corner of Section 36, Township 27 South, Range 32 East; continuing along the North line of aforesaid Section 1, run North 89 degrees 41 minutes 03 seconds West, 1706.90 feet; run thence South 00 degrees 26 minutes 56 seconds West, 1320.00 feet; run thence South 89 degrees 40 minutes 16 seconds East, 3496.39 feet to the aforesaid West right of way line of U.S. Highway No. 441, said right of way line being 50.0 feet West of the centerline of the existing roadway; run thence North 14 degrees 25 minutes 30 seconds West, along said right of way line, 1366.39 feet to the POINT OF BEGINNING.

PARCEL 2

All of Section 11, Township 28 South, Range 32 East, Osceola County, Florida.

PARCEL 3

All of Section 12, Township 28 South, Range 32 East, Osceola County, Florida.

PARCEL 4

That portion of Section 7, Township 28 South, Range 33 East, Osceola County, Florida, lying West of U.S. Highway 441.

LESS AND EXCEPT that portion of the above described parcel lying within the land conveyed to the State of Florida in the Deed recorded in Official Records Book 662, Page 608, Public Records of Orange County, Florida, described as follows:

BORROW PIT LEFT (WEST) STATION 435.20.26

THAT PART OF:

The Southwest Quarter of Section 7, Township 28 South, Range 33 East, Osceola County, Florida, lying within the following described boundaries:

Commence on the South line of Section 7, Township 28 South, Range 33 East, at a point 1997.45 feet South 89 degrees 35 minutes 11 seconds West of the Southeast corner of said Section 7; thence run North 30 degrees 40 minutes 00 seconds West, a distance of 1556.10 feet; thence run South 59 degrees 20 minutes 00 seconds West a distance of 600 feet for the POINT OF BEIGNNING; thence continue South 59 degrees 20 minutes 00 seconds West, a distance of 300 feet; thence run North 30 degrees 40 minutes 00 seconds West, a distance of 300 feet; thence run North 59 degrees 20 minutes 00 seconds East, a distance of 300 feet; thence run South 39 degrees 40 minutes 00 seconds East, a distance of 300 feet to the POINT OF BEGINNING.

HAUL ROAD LEFT (WEST) STATION 436.06.33

THAT PART OF:

The Southwest Quarter of Section 7, Township 28 South, Range 33 East, Osceola County, Florida, lying within the following described boundaries:

Commence on the South line of Section 7, Township 28 South, Range 33 East at a point 1997.45 feet, South 89 degrees 35 minutes 11 seconds West of the Southeast corner of said Section 7; thence run North 30 degrees 40 minutes 00 seconds West, a distance of 1642.17 feet; thence run South 59 degrees 20 minutes 00 seconds West, a distance of 50 feet to the Westerly right of way line of State Road 15 and the POINT OF BEGINNING for the Haul Road herein described; thence run South 50 degrees 26 minutes 23 seconds West, a distance of 556.69 feet; thence run North 30 degrees 40 minutes 00 seconds West a distance of 50.60 feet; thence run North 50 degrees 26 minutes 23 seconds East a distance of 556.69 feet to the said Westerly right of way line; thence run South 30 degrees 40 minutes 00 seconds East, a distance of 50.60 feet to the POINT OF BEGINNING.

PARCEL 5

That portion of Section 6, Township 28 South, Range 33 East, Osceola County, Florida, lying West of U.S. Highway 441.

June 26, 2002

To Whom It May Concern:

This letter authorizes Omni Waste of Osceola County, LLC (Omni) to seek all permits, licenses, and approvals necessary for the construction of a Class I landfill, access road, stormwater management system, and related facilities and appurtenances (collectively "the Project"), upon land owned by Bronsons, a Florida General Partnership, in Sections 13 and 14, Township 28 South, Range 32 East, and in Sections 17 (west of Highway 441) and 18, Township 28 South, Range 33 East, in Osceola County, Florida. Omni and Bronsons have entered into an agreement that gives Omni the right to acquire these lands, subject to certain terms and conditions, and use the property for the Project.

Sincerely,

Bronsons, a Florida General Partnership

By: _____
Dan Lackey – General Manager

IRLO "BUD" BRONSON, JR.
MANAGING PARTNER

COMMERCIAL CATTLE AND CITRUS
1415 West Vine St. • P.O. Box 420879 • Kissimmee, Florida 34742-0879 • Phone (407) 847-2847 • Fax (407) 847-6074

ATTACHMENT 6

Prepared for

Omni Waste

Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, Florida 34741

APPLICATION FOR A PERMIT TO CONSTRUCT AND OPERATE A CLASS I LANDFILL

OAK HAMMOCK DISPOSAL FACILITY

Prepared by

GeoSyntec Consultants
14055 Riveredge Drive, Suite 300
Tampa, Florida 33637

Project Number FW0400

May 2002
Reissued 28 June 2002

MOYLE, FLANIGAN, KATZ, RAYMOND & SHEEHAN, P.A.

ATTORNEYS AT LAW

625 North Flagler Drive - 9th Floor
West Palm Beach, Florida 33401-4025

P.O. Box 3888
West Palm Beach, Florida 33402-3888

Telephone: (561) 659-7500
Facsimile: (561) 659-1789

PETER L. BRETON
BOARD CERTIFIED REAL ESTATE LAWYER
Direct Line: (561) 822-0385
E-mail: pbreton@moylelaw.com

Tallahassee Office
(850) 681-3828

June 27, 2002

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Florida Department of Environmental Protection - Central District
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803-3767

Attn: William M. Bostwick, Jr.
Waste Management Administrator

Re: Oak Hammock Disposal Site
Applicant: Omni Waste of Osceola County LLC
Application No. 199726-001 and 199726-002

Dear Mr. Bostwick:

I represent Waste Management Inc. of Florida. My client is interested in the above-captioned solid waste permit applications. Please add Waste Management Inc. of Florida, Attention: Ronald M. Kaplan, Esq., Florida Counsel for Waste Management, Inc., 2700 NW 48 Street, Pompano Beach, FL 33073 to the mailing list for the Notice of Intent and all other notices for these permits. Thank you for your cooperation.

Very truly yours,

Peter L. Breton

PLB:smw
cc: Carolyn McCreedy
Ronald M. Kaplan, Esq.

G:\23391\19\FDEP - Bostwick Ltr.doc

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

By E-mail
tjsomni@aol.com

Mr. Timothy J. Salopek
Omni Waste of Osceola County, LLC
100 Church Street
Kissimmee, FL 34741

OCD-SW-02-0210

Osceola County - SW
Oak Hammock Disposal, Class I
Permit Application Nos. SC49-0199726-001 & SO49-0199726-002

Dear Mr. Salopek:

This is to acknowledge receipt of your application for the subject facility. The status of your application is as follows:

(X) Your application for permit received on May 24, 2002, 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.

() The additional information received on , was reviewed, however, the items listed on the attached memo remain incomplete. Evaluation of your application will continue to be delayed until we receive all requested information.

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, omissions or supply additional information within a reasonable period of time. Please submit three copies of the requested information to the Department and reference the above application permit number in your correspondence.

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

Sincerely,

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

Date: June 17, 2002

JNB/gc/ew
Enclosure
cc: Kenneth W. Cargill, P.E. - Geosyntec Consultants
KCargill@geosyntec.com

1. Submit proof of publication of Notice of Application that was published in a newspaper of general circulation in the area where the facility will be located for a permit to construct and operate a Class I landfill to be known as the Oak Hammock Disposal.

2. Submit proof of receipt of Notice of Application to the Chair of the Board of County Commissioners and the State Senator and Representative serving the jurisdiction in which the Class I landfill to be know as the Oak Hammock Disposal will be located.

3. Vol. I, Page 10, Section 2.7.2 states that construction and demolition debris and other waste classified as Class I waste may be disposed in the OHD landfill. Provide a description of the construction and demolition debris and other waste that will be disposed in the OHD Class I landfill.

4. Item A-12, on Page 5 of 40, DEP Form 62-701.900(1), needs to be completed. Submit the revised page.

5. Items B-2 and B-16 on Pages 6 and 7 of 40, on DEP Form 62-701.900(1), needs to be completed. Submit the revised pages.

6. Vol. I, Page 21, Section 4.2.1 states that leachate will be transported by truck to a wastewater treatment plant. 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.

7. Vol. I, Page 2, Section 1.2 states that the OHD site is located in Sections 11, 13 and 14 and Sections 17 and 18. The site ownership in Appendix C refers to Sections 13 and 14, and Section 18. Page 4 of 40, DEP Form 62-701.900(1) refers to Sections 11 and 14. Please clarify.

8. Vol. I, Page 7, Section 2.2 states that yard trash, white goods, and whole tires will be accepted for processing, reuse or recycling. Submit details.

9. Vol. I of III is not signed and sealed by a professional engineer registered in the State of Florida. Submit Vol. I of III signed and sealed by a professional engineer registered in the State of Florida.

10. Will a potable water well be installed on the site for the office and other potable uses?

11. Locate the office and scales on the map.

12. On Sheet 41 of 50, the sideslope of the drainage swale is steeper than 3 horizontal to 1 vertical. Please explain how erosion of this swale will be controlled so that there will be no damage to the final cover.

13. Financial responsibility arrangements for the facility are to be made with the Financial Coordinator, Solid Waste Section, Department of Environmental Protection, MS-4565, 2600 Blair Stone Road, Tallahassee, FL 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, FL 32803-3767.

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

11 June 2002

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

Subject: Response to Request for Information
Class I Landfill Permit Application
Oak Hammock Disposal Facility
Omni Waste of Osceola County, LLC

Dear Mr. Bradner:

This response is prepared to address the request for information by Ms. Deborah Helle, P.G., via e-mail dated 4 June 2002, for clarification regarding leachate sampling locations. Attached please find Figure RFI-1 titled "Phase 1 Groundwater Monitoring Well and Leachate Sampling Location Layout." A digital copy of this figure has been sent to Ms. Helle as a PDF file via e-mail.

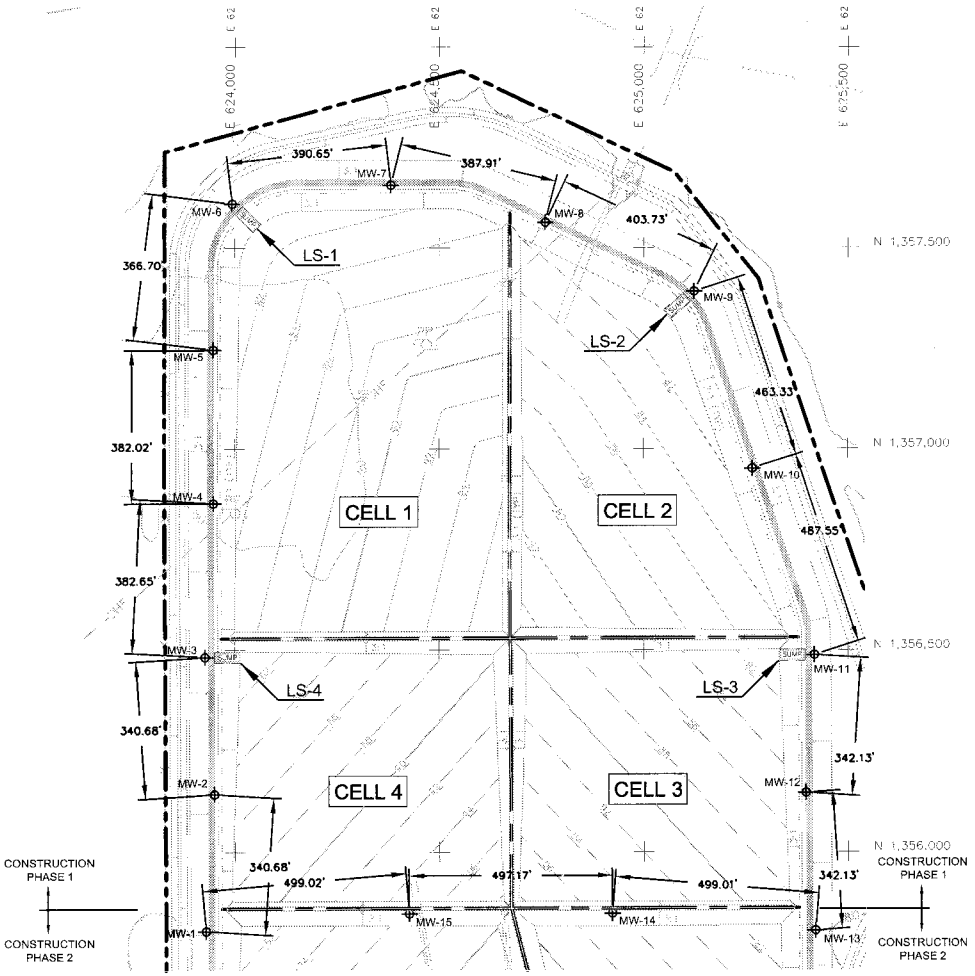
If you or your staff has any questions or need additional information, please feel free to contact the undersigned.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

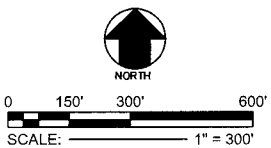
Enclosures

copy: Timothy J. Salopek, Omni Waste
David S. Dee, Landers & Parsons
Bill Kozuh, Omni Waste
Jerry Kubal, Kubal-Furr & Associates



PHASE 1 GROUNDWATER MONITORING WELL AND LEACHATE SAMPLING LOCATION LAYOUT

SCALE: 1" = 300'



WELL	Northing	Easting
MW-1	1355801.76	623927.76
MW-2	1356141.76	623949.18
MW-3	1356481.70	623926.60
MW-4	1356863.75	623947.95
MW-5	1357245.77	623947.30
MW-6	1357609.65	623992.77
MW-7	1357655.74	624380.68
MW-8	1357563.00	624757.34
MW-9	1357390.93	625122.57
MW-10	1356950.48	625266.36
MW-11	1356487.15	625418.09
MW-12	1356145.69	625396.67
MW-13	1355804.30	625419.26
MW-14	1355846.36	624922.02
MW-15	1355845.51	624424.85

LEGEND

MW-1 GROUNDWATER MONITORING WELL LOCATION.

AT EACH LOCATION A GROUP OF THREE WELLS WILL BE DRILLED TO SHALLOW (MW-1a), INTERMEDIATE (MW-1b), AND DEEP (MW-1c) ELEVATIONS. THESE WELLS WILL BE SPACED 5 FEET APART AND ARRANGED PARALLEL TO THE PERIMETER MAINTENANCE ROAD OR INTERCELL BERM ALIGNMENTS.

LS-1 LEACHATE SAMPLE LOCATION

LEACHATE SAMPLES WILL BE OBTAINED FROM THE PRIMARY LEACHATE SUMP.

NOTES:

1. NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)(FEET).
3. PHASE I REPRESENTS LANDFILL DEVELOPMENT IN THE FIRST 5 YEARS OF OPERATION.

GeoSyntec Consultants
TAMPA, FLORIDA

PROJECT NO.	FW0400	FIGURE NO.	RFI-1
DATE.	7 JUNE 02	FILE NO.	0400F0057

Cheryan, George

From: Tedder, Richard
Sent: Wednesday, June 12, 2002 10:58 AM
To: Cheryan, George
Subject: Oak Hammock LF

George,

I finally decided to send you only one comment.

1. On Sheet 41 of 50, the sideslope of the drainage swale is steeper than 3 horizontal to 1 vertical. Please explain how erosion of this swale will be controlled so that there will be no damage to the final cover.

Good luck! - RT

cc : J. BRADNER

Florida Department Of

Memorandum

Environmental Protection

CENTRAL DISTRICT

TO: Jim Bradner, P.E.

FROM: Deborah Helle, P.G.

DATE: June 10, 2002

SUBJECT: Oak Hammock New Class I Permit Application Review

I have reviewed the referenced document and following are my comments:

1. Will a potable water well be installed on the site for the office? and other potable uses

2. Locate the office and scales on the map.

FDEP

6/7/02

To Whom it May Concern;

In reference to the "Omni Waste" application to construct a Class 1 landfill, known as Oak Hammock Disposal. (5 mi so of Holopaw) My objection were, have been, and still are, "that this Company cannot guarantee that an "ecological disaster" cannot or will not occur as a result of building a landfill in such close proximity to the head water of Bull Creek. This Creek flows into the water source for St Brevard Co, and should be of concern to the St. Johns Water Management District. The actual

sight is in the South Fla W M district. and the impact there is Probably nill

The Osceola Co Commission as you are Probably aware initally turned down their (Omni's) request for a landuse change. After which Omni filed suit against the Co. Then Blackmail the Co by agreeing to drop the law suit if the Co would grant the land use change. (which the Co did). My view is, "Just the kind of "Garbage" a Garbage Co would Pull".

Using Omnis figures on Possible leakage of their liner

I recall a 1cm hole/Acre x 20 on an area of 190 Acres We have a cumlative leak potential of almost a "SIX FOOT" hole. This may be an acceptable figure to some, but a 190 acres X 75 to 90' high pressure leachate through a hole of that diameter (cumlative) into an area as sensitive as this area is just doesn't seem right to me.

Please take a long hard look at this issue and do what's right for the People of Osceola and Brevard Co.

V/R

Gary Pickett
9495 Concord Rd
St Cloud, Fl 34773
407-957-2659

Sent: Pickett & Coughenour 5/30/02

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

22 May 2002

Honorable Paul Owen, Chairman
Osceola County Board of County Commissioners
1 Courthouse Square, Suite 5700
Kissimmee, Florida 34741

Certified Mail No. 7002 0510 0003 0581 6022

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 a new "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials). The landfill will be located in unincorporated 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, State Senator Howard E. Futch and State Representative Frank Attkisson. In addition, the attached notice will be published in the Orlando Sentinel.

This firm has been hired to design the landfill and provide other engineering services for Omni. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

KWC:vds
Attachment: Notice of Application

cc: Mr. Lenny Marion, Osceola County
Mr. Ray Tobey, City of St. Cloud
Mr. Timothy J. Salopek, Omni Waste
Mr. James Bradner, P.E., FDEP

Gary L. Pickett
Jeanette Coughenour, Managers, Association of Poinciana Village, Inc.

Orlando Sentinel

OrlandoSentinel.com

CENTRAL FLORIDA EDITION

FOUNDED 1876

50 CENTS

WEDNESDAY

MAY 22, 2002

Osceola

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
NOTICE OF APPLICATION

The Department of Environmental Protection announces receipt of an application for permit from Omni Waste of Osceola County, LLC to construct and operate a Class I landfill to be known as **Oak Hammock Disposal.** This project is located approximately five miles south of Holopaw, Osceola County, Florida on the west side of highway U.S. 441.

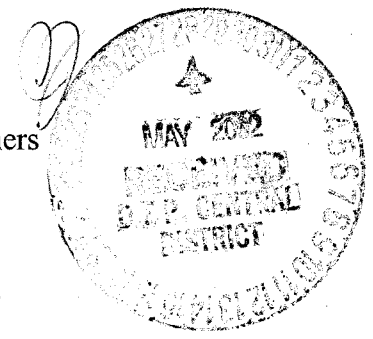
This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays at the Department of Environmental Protection, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767, telephone (407) 893-3328. Any comments or objections should be filed in writing with the Department at this address. Comments or objections should be submitted as soon as possible to ensure that there is adequate time for them to be considered in the Department decision on the application.

OSCL4474868 May 22, 2002

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

22 May 2002



Honorable Paul Owen, Chairman
Osceola County Board of County Commissioners
1 Courthouse Square, Suite 5700
Kissimmee, Florida 34741

Certified Mail No. 7002 0510 0003 0581 6022

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 a new "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials). The landfill will be located in unincorporated 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, State Senator Howard E. Futch and State Representative Frank Attkisson. In addition, the attached notice will be published in the Orlando Sentinel.

This firm has been hired to design the landfill and provide other engineering services for Omni. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

KWC:vds
Attachment: Notice of Application

cc: Mr. Lenny Marion, Osceola County
Mr. Ray Tobey, City of St. Cloud
Mr. Timothy J. Salopek, Omni Waste
Mr. James Bradner, P.E., FDEP

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

22 May 2002

Honorable Frank Attkisson
State Representative
District 79
323 Pleasant Street
Kissimmee, Florida 34741-5763

Certified Mail No. 7002 0510 0003 0581 6039

Dear Representative Attkisson:

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 a new "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials). The landfill will be located in unincorporated 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, State Senator Howard E. Futch, and Mr. Paul Owen, the Chairman of the Board of County Commissioners of Osceola County. In addition, the attached notice will be published in the Orlando Sentinel.

This firm has been hired to design the landfill and provide other engineering services for Omni. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

KWC:vds
Attachment: Notice of Application

cc: Mr. Lenny Marion, Osceola County
Mr. Ray Tobey, City of St. Cloud
Mr. Timothy J. Salopek, Omni Waste
Mr. James Bradner, P.E., FDEP

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

22 May 2002

Honorable Howard E. Futch
State Senator
District 18
134 Fifth Avenue, Suite 103
Indialantic, Florida 32903

Certified Mail No. 7002 0510 0003 0581 6046

Dear Senator Futch:

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 a new "Class I" landfill (i.e., a landfill that will receive typical household garbage and similar materials). The landfill will be located in unincorporated 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, State Representative Frank Attkisson, and Mr. Paul Owen, the Chairman of the Board of County Commissioners of Osceola County. In addition, the attached notice will be published in the Orlando Sentinel.

This firm has been hired to design the landfill and provide other engineering services for Omni. Please call me at 813-558-0990 if you have any questions about this project.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

KWC:vds
Attachment: Notice of Application

cc: Mr. Lenny Marion, Osceola County
Mr. Ray Tobey, City of St. Cloud
Mr. Timothy J. Salopek, Omni Waste
Mr. James Bradner, P.E., FDEP

Memorandum

Florida Department of
Environmental Protection

TO: R. Tedder P.E. / LEE MARTIN, P.E.

FROM: J. BRADNER, P.E

DATE: MAY 28, 2002

SUBJECT: County OSCEOLA Permit / ~~OGC~~ SC49-0199726-001 & SO49-0199726-002

Facility OAK HAMMOCK DISPOSAL, CLASS I - CONSTR. & OPERATI

Attachment VOL I, II, III & DRAWINGS

The attached is being sent to you for:

____ Information only

✓ Review and comments

If review and comments are needed, please respond:

✓ By JUNE 14, 2002
(Solid Waste deadline date is _____)

____ As soon as possible for your schedule.

Comments: _____

Florida Department of

Memorandum

Environmental Protection

TO: Deborah Helle, P.G.

FROM: Jim Bradner, P.E.

DATE: MAY 28, 2000

SUBJECT: County: OSCEOLA

Permit/~~OGC~~: SC49-0199726-001 & SO49-0199726-002

Facility: OAK HAMMOCK DISPOSAL, CLASS I – CONST. & OPERATE

Attachment: ✓

The attached is being sent to you for:

____ Information only

✓ Review and comments

If review comments are needed, please respond:

✓ By:
(Solid Waste deadline is JUNE 12, 2002)

____ As soon as possible for your schedule.

Comments: _____

GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637 • USA
Telephone (813) 558-0990 • Fax (813) 558-9726

24 May 2002

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

Subject: Class I Landfill Construct and Operate Permit Application
Oak Hammock Disposal Facility
Omni Waste of Osceola County, LLC

Dear Mr. Bradner:

Transmitted herewith are five copies of the subject permit application package, which was prepared by GeoSyntec Consultants on behalf of Omni Waste of Osceola County, LLC. This submittal includes information and data responding to the requirements of Chapter 62-701, FAC and consists of:

- Volume I: Through Appendix D;
- Volume II: Appendix E through J;
- Volume III: Appendix K through R; and
- Permit Drawings: Sheets 1 through 50

A check in the amount of $20,000 is also enclosed with this permit application. An application for an Environmental Resources Permit is being submitted separately. If you, or your staff, have any questions or need additional information, please feel free to contact the undersigned.

Sincerely,

Kenneth W. Cargill, P.E.
Principal

Enclosures

copy: Timothy J. Salopek, Omni Waste