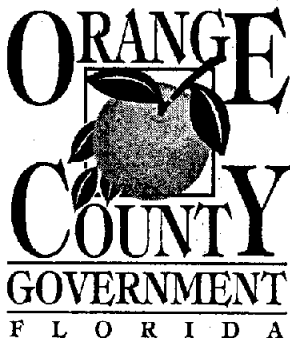


***Modification of a Permit Application  
Solid Waste Management Facility Operations  
Permit Application and Engineering Report  
For Class I, Cell 7B/8, and Class III, Cell 1***

***Solid Waste Management Facility  
Orange County, Florida***

***February 2004***

*Prepared for:*



***Solid Waste Division  
Orange County, Florida***

*Prepared by:*



***The Joint Venture  
Orlando, Florida***

*Handwritten signature and date: 2/13/04*

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- V. Changes in Solid Waste Management Facility Operations Permit Renewal Application, Orange County Landfill, November 2002, Volume 1, Section 1.0, Application for a Permit to Construct, Operate, Modify or Close a Solid Waste Management Facility, Page 8 of 40, Sections 27 and 28
- VI. Changes in Solid Waste Management Facility Operations Permit Renewal Application, Orange County Landfill, November 2002, Volume 2, Attachment B, Operation and Maintenance Plan, Page 9-3, Section 9.3, Description-Leachate Control System
- VII. Changes in Solid Waste Management Facility Operations Permit Renewal Application, Orange County Landfill, November 2002, Volume 2, Attachment B, Operation and Maintenance Plan, Page 17-1, Section 17.1, Stormwater Control

**Letter to James Bradner**  
**Description of the Modification**  
**for**  
**Permit to Construct, Operate,**  
**Modify or Close a**  
**Solid Waste Management Facility**



**ORANGE COUNTY UTILITIES - SOLID WASTE DIVISION**

5901 Young Pine Road • Orlando, Florida 32829  
407-836-6600 • Fax 407-836-6629

February 20, 2004

RECEIVED

FEB 26 2004

Central Dist. - DEP

Mr. James Bradner  
Program Manager Solid and Hazardous Waste  
FDEP-Central District  
3319 McGuire Boulevard, Suite 232  
Orlando, FL 32803

Re: Minor Modification Request  
Application to Modify Permits SO48-0128169-014 and SO48-0128169-015 to  
Operate a Solid Waste  
Management Facility  
Class I, Cell 7B/8 and Class III, Cell 1

Dear Mr. Bradner:

This application proposes to modify the existing permits to operate the Orange County Solid Waste Management Facility. The County is operating the landfill under permit numbers SO48-0128169-014 and SO48-0128169-015, dated April 3, 2003. Section III contains a copy of these two Operations Permits.

An operations permit modification to discharge Pond 2 water to the Landfill Outfall Ditch (LOD) via a west route pipeline was issued by FDEP on April 3, 2003. Subsequent to permit issuance, the County, through an August 5, 2003 Consent Agreement with FDEP, amended September 2, 2003 (see Section II), has agreed to route Pond 2 water east to Orlando Utilities Commission's (OUC's) Curtis H. Stanton Energy Center for supplemental cooling water. Thus, this modification application proposes changes in the operations permits to reflect the east route. It is proposed that the onsite wetlands be used to receive Pond 2 water only when it cannot be pumped to OUC. The County requests retention of its ability to discharge to the landfill outfall ditch if OUC permanently stops flow of Pond 2 water to their makeup water pond. The discharge to the LOD would only be instituted if the County receives permission from FDEP.

This modification of the permit is to route the new forcemain from Pond 2 to OUC. The primary outfall will be located at the Curtis H. Stanton Energy Center's cooling pond. Upon completion of the construction, the landfill water will cease to discharge from the Wide Cypress Swamp (WCS) into the LOD at south property line, except as authorized by permit.

Conceptual design plans for diverting flow from Pond 2 to OUC's cooling pond are presented in the permit application to modify IW/NPDES Permit Number FL0037133 submitted to FDEP on December 17, 2003.



Mr. James Bradner  
FDEP-Central District  
Minor Modification Request  
February 20, 2004  
Page Two

This application proposes to modify the Solid Waste Management Facility Operations Permit Renewal Application, Orange County Landfill, November 2002 as follows:

- Volume 1, Section 1.0, Page 8 of 40, Section 27 and 28 in the Application for a Permit to Construct, Operate, Modify or Close a Solid Waste Management Facility is to be modified. The receiving water is now the Stanton Energy Center or the Little Econlockhatchee River. The ERP modification will be submitted to include the use of stormwater as cooling water at the Stanton Energy Center. Section V contains a copy of this page showing the proposed modifications.
- Volume 2, Attachment B, Operation and Maintenance Plan, Page 9-3, Section 9.3, Description – Leachate Control System is to be changed as shown in Section VI.
- Volume 2, Attachment B, Operation and Maintenance Plan, Page 17-1, Section 17.1, Stormwater Control is to be changed as shown in Section VII.

All other terms and conditions in the current operations permit and application remain the same.

You had quoted a fee of \$250 to modify the permit. That check is enclosed.

If you have any questions or comments please feel free to contact me at (407) 836-6654.

Sincerely,



Dan R. Morrical, P.E.  
Chief Engineer

enclosure

c: James W. Becker, Manager, Orange County Utilities-Solid Waste Division  
Jim Flynt, P.E., Sr. Engineer, Orange County Utilities-Solid Waste Division [w/enclosure]  
Stanley J. Keely, P.E., JV [w/enclosure]  
Bo Bruner, P.E., JV  
Ron Beladi, P.E., JV

**Amended Consent Agreement (September 2, 2003)**



COUNTY ATTORNEY'S OFFICE  
THOMAS B. DRAGE, JR. County Attorney  
201 South Rosalind Avenue - 3rd Floor  
Reply To: Post Office Box 1393  
Orlando, Florida 32803-1393  
407-836-7320 • Fax 407-836-5868  
www.orangecountyfl.net

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Orig - File  
Copies - OR  
- JF -  
- JB -

## MEMORANDUM

TO: Rosilyn Stapleton, Deputy Clerk, Comptroller Clerk of BCC

FROM: Anthony J. Cotter, Assistant County Attorney *AJC*

SUBJECT: Orange County/State of Florida Department of Environmental Protection; Amended Consent Agreement; Consent Item J. 1, August 5, 2003

DATE: September 8, 2003 *SwiSoe writer*

*NPDES Permit*

For your files, attached please find an original Amended Consent Agreement, which has been executed by the State of Florida Department of Environmental Protection.

AJC/mjb

### Attachment

cc: Michael L. Chandler, Director, Utilities  
Teresa Remudo-Fries, Deputy Director, Utilities  
Daniel Allen, Deputy Director, Utilities  
James Becker, Manager, Solid Waste Division  
~~Don Morrical~~, Chief Engineer, Solid Waste Division

APPROVED  
BY ORANGE COUNTY BOARD  
OF COUNTY COMMISSIONERS

AUG 05 2003

*Ala/mo*

RECEIVED

AUG 13 2003

Central Dist. - DEP

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION,

Complainant,

vs.

ORANGE COUNTY, FLORIDA, d/b/a  
ORANGE COUNTY UTILITIES DEPARTMENT,  
SOLID WASTE DIVISION,  
ORANGE COUNTY LANDFILL,  
FACILITY ID: FL0037133,

Respondent.

IN THE OFFICE OF THE  
CENTRAL DISTRICT

OGC FILE NO. 00-0710

AMENDED CONSENT AGREEMENT

The State of Florida Department of Environmental Protection ("Department") and Orange County, Florida ("Respondent") executed a Consent Agreement ("Original Agreement"), on January 8, 2001. This Amended Consent Agreement which amends the Original Agreement is entered into between the Department and the Respondent. It is hereby agreed between the parties that this Amended Consent Agreement shall amend all of the provisions of the Original Agreement.

The Department finds and the Respondent neither admits nor denies the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to protect Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes ("F.S."), and the rules promulgated thereunder, Title 62, Florida Administrative Code ("F.A.C."). The Department has jurisdiction over the matters addressed in this Amended Consent Agreement.

2. Respondent is a person within the meaning of Section 403.031(5), Florida Statutes.

3. Respondent is the owner of the Orange County Landfill. Orange County Utilities Department, a department of Respondent, is responsible for the operation of a pumping system which discharges ground water mixed with leachate and stormwater, from the landfill, to the on-site wetland treatment system ("Facility"). Water from the wetlands treatment system discharges to the Landfill Outfall Ditch, thence to the Little Econ River. Respondent operates the treatment system under Department Solid Waste Permit No. SO48-212592, which was consolidated with NPDES Permit No. FL0037133 on June 15, 1995, which expired on December 27, 1998. The Facility is located at 5901 Young Pine Road, Orlando, Florida, Latitude 28° 28' 52" North, Longitude 81° 11' 30" West.

4. On June 26, 1998, at least 180 days prior to the expiration date of the consolidated permit, the Department received an application for a permit renewal. In accordance with Rule 62-620.335, F.A.C., the Department administratively continued the consolidated permit because of Respondent's timely submittal. During file reviews for the permit renewal process, Department staff noted that the facility had exceeded some of the limits of Chapter 62-302, F.A.C., that were referenced in the consolidated permit. In accordance with Section 403.088(2)(f), F.S., Department staff determined that a Consent Agreement was needed to resolve the violations so that a new permit could be issued. Respondent agreed to enter a Consent Agreement to resolve the matters addressed above.

5. In July 1998, the Department issued its first request for additional information letter relating to Respondent's permit application. Over the next two years, the Department and Respondent worked diligently to resolve permit issues and negotiate the Original Agreement. The Original Agreement was signed by the Department and Respondent and became effective on January 8, 2001.

6. On February 7, 2001, the Respondent submitted to the Department plans and other appropriate documentation relating to the cleaning/maintenance of the Landfill Outfall Ditch to improve flow and/or water quality from the point of discharge from Pond 4 to the end of landfill property, as addressed in the Original Agreement.

7. On February 9, 2001, the Department received \$500.00 for payment of settlement costs, as addressed in the Original Agreement.

8. On March 15, 2001, the Department issued the renewal of Permit FL0037133 authorizing operation of the Facility and construction of a pipeline to divert the effluent from Pond 2 to a new outfall location farther downstream of the current discharge into the Landfill Outfall Ditch ("LOD"). The Respondent submitted detailed design documents to construct the subject pipeline, as addressed in the Original Agreement, to the Department's Environmental Resource Permitting section on the same date.

9. Subsequent to the issuance of Permit FL0037133, the Department initiated discussions between the Respondent and the Orlando Utilities Commission ("OUC") to construct a pipeline from the Orange County Landfill to the Stanton Energy Center ("SEC") to provide landfill water to the SEC for use in OUC's make-up pond. As a result of these discussions and much effort on behalf of the Department, OUC and Respondent, OUC and Respondent agreed to construct the pipeline and associated facilities. OUC will construct the portion of the pipeline located on the SEC, and Respondent will construct the portion of the pipeline located on the landfill property. On March 4, 2003, a meeting between the Department and the Respondent was held to discuss amending the Original Agreement in consideration of Respondent's commitment to construct its portion of the pipeline. In lieu of constructing a pipeline to divert the effluent from Pond 2 to a location farther downstream of the current discharge into the LOD, as

referenced in Paragraph 8, above, the Respondent and OUC will construct a pipeline from the Orange County Landfill Pond 2 to the SEC make-up pond ("Pipeline").

10. Having reached a resolution of the matter the Department and the Respondent mutually agree and it is

**ORDERED:**

11. Within 120 days of the effective date of this Amended Consent Agreement, Respondent shall, pursuant to Sections 403.087 and 403.088, F.S., and Chapters 62-620, F.A.C., submit an application for a modification of Permit FL0037133, along with the appropriate fee, to the Department. This application will seek permit modifications to replace the LOD pipeline with the Respondent's portion of the Pipeline. The application shall meet all requirements of Chapter 62-620, F.A.C.; including, but not limited to being prepared and sealed by a professional engineer registered in the State of Florida. In the event the application is deemed to be incomplete by the Department, the Respondent shall, within 30 days of written request by the Department, submit to the Department all information requested. By entering into this Amended Consent Agreement, Respondent does not waive any of its rights relating to the above-listed permit, including the right to challenge any term or provision of the permit, and any subsequent amendment or modification to the permit, in an administrative proceeding pursuant to Chapter 120, F.S., and/or in a court of competent jurisdiction as provided by law or rule.

12. Respondent shall submit a modified plan to clean the LOD to the western property line, except for portions of the north-south section of the LOD located within the wetland system contiguous to the south of the LOD along the west property line of the original 1500-acre site. The revised plan shall be submitted with the Respondent's application to modify its Environmental Resource Permit (ERP).

13. Respondent shall complete construction of its portion of the Pipeline and submit a Notice of Completion of Construction to the Department no later than 18 months from the Department's authorization to construct Respondent's portion of the Pipeline and place it in service no later than December 31, 2005.

14. Within 60 days of placing the Pipeline in service, Respondent shall cease the discharge at-structure D-001, except as a result of scheduled or unscheduled maintenance at the SEC, temporary interruption of the delivery of landfill water by OUC, pipeline interruptions, storm events that restrict delivery to the make-up pond or storm events that result in runoff exceeding the storage capacity of the on-site Wide Cypress Swamp. The existing overflow weirs shall be modified to preclude discharges resulting from less than 25 year/24 hour storm events.

15. Every calendar quarter after the effective date of this Amended Consent Agreement, Respondent shall submit in writing to the Department a report containing information concerning the status and progress of projects being completed under this Amended Consent Agreement, information as to compliance or noncompliance with the applicable requirements of this Amended Consent Agreement including construction requirements and effluent limitations, and any reasons for noncompliance. Such reports shall also include a projection of the work to be performed pursuant to this Amended Consent Agreement during the following 12 month period. The reports shall be submitted to the Department within thirty (30) days following the end of the quarter.

16. As of the effective date of this Amended Consent Agreement, the following discharge limitations, sampling and analysis of the effluent shall be in effect for the period of operation from the effective date of this Amended Consent Agreement until such time as the Pipeline is placed in service.



17. The sampling and analysis requirements are as follows and shall be reported on the Discharge Monitoring Report form attached to this Amended Consent Agreement as Exhibit 1:

All sampling required in this Paragraph shall be conducted at the monitoring locations described as follow:

Monitoring Location Site Number	Description of Monitoring Location
EFF-01	This sampling point is associated with Outfall D-001. This sample may be taken at either of the two structures where the WCSWTS discharges to the Landfill Outfall Ditch.
LEC-1	A sampling location in the Landfill Outfall Ditch associated with the last permit, located downstream of Outfall D-001.
WIM-01	The sampling point is associated with Outfall D-004 (formerly Outfall 001 from Pond 2 to the wetlands treatment system).

(a) Effluent from the wetlands treatment system discharged at Outfall D-001 to South Canal shall be sampled and analyzed for the following parameters at the sampling location EFF-01:

Parameters	Units	Daily Average	Daily Maximum	Sample Type	Monitoring Frequency
Flow @ EFF-01	MGD	Report	Report	Metered	Daily
Flow @ LEC-1	MGD	Report	Report	Measured	Daily
pH, Field	SU	N/A	Report	Grab	Daily
Oxygen, Dissolved (DO) **	mg/l	Report	Report	In-situ	Weekly
Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/l	Report	Report	Grab	Monthly
Total Suspended Solids (TSS)	mg/l	Report	Report	Grab	Monthly
Total Nitrogen (as N)	mg/l	Report	Report	Grab	Monthly
TKN (as N)	mg/l	Report	Report	Grab	Monthly
Ammonia (as N)	mg/l	Report	Report	Grab	Monthly
Un-Ionized Ammonia (as N) <sup>(a)</sup>	mg/l	≤0.02	≤0.02	Calc. <sup>(a)</sup>	Monthly
Total Phosphorus (as P)	mg/l	Report	Report	Grab	Monthly
Temperature	°C	Report	Report	In-situ	Monthly
Chlorides, Total	mg/l	Report	Report	Grab	Monthly
Sulfates, Total	mg/l	Report	Report	Grab	Monthly
Specific Conductance	umhos/cm	Report	Report	In-situ	Monthly
Total Dissolved Solids	mg/l	Report	Report	Grab	Monthly
Total Organic Carbon	mg/l	Report	Report	Grab	Monthly
TRPH	mg/l	Report	Report	Grab	Monthly
Oil and Grease	mg/l	Report	Report	Grab	Monthly
Hardness, Total (as CaCO <sub>3</sub> ) (H)	mg/l	Report	Report	Grab	Monthly

Arsenic, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Cadmium, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Copper, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Chromium, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Iron, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Mercury, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Manganese, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Lead, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Selenium, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Silver, Total Recoverable	ug/l	Report	Report	Grab	Monthly
Sodium	mg/l	Report	Report	Grab	Monthly
Zinc, Total Recoverable	ug/l	Report	Report	Grab	Monthly

- (a) Must be based on using pH and temperature values measured on the same day as the Ammonia sample was taken.  
 \*\* Dissolved Oxygen minimum is report only.

Compliance with the "Minimum Criteria for Surface Waters" as established in Rule 62-302.500, F.A.C., is required at all times.

(b) Effluent from Pond 2 to the wetlands treatment system discharged at Outfall D-004 (formerly Outfall 001) shall be sampled and analyzed for the following parameters at sampling location WIM-01:

Parameters	Units	Minimum	Daily Maximum	Sample Type	Monitoring Frequency
Flow @ WIM-01	MGD	Report	Report	Measured	Daily
pH, Field	SU	Report	Report	Grab	Semi-annual
Total Suspended Solids (TSS)	mg/l	N/A	Report	Grab	Semi-annual
Temperature	°C	N/A	Report	In-situ	Semi-annual
Oxygen, Dissolved (DO) *	mg/l	Report	Report	In-situ	Semi-annual
Oxygen Demand, Chemical (COD)	mg/l	N/A	Report	Grab	Semi-annual
Total Organic Carbon	mg/l	Report	Report	Grab	Semi-annual
Phosphorus, Total Elemental	mg/l	N/A	Report	Grab	Semi-annual
Oil and Grease	mg/l	N/A	Report	Grab	Semi-annual
Nitrogen, Organic Total (as N)	mg/l	N/A	Report	Grab	Semi-annual
Nitrogen, Ammonia Total (as N)	mg/l	N/A	Report	Grab	Semi-annual
Un-Ionized Ammonia (as N) <sup>(a)</sup>	mg/l	N/A	Report	Calc. <sup>(a)</sup>	Semi-annual
Nitrogen, Kjeldahl Total (as N)	mg/l	N/A	Report	Grab	Semi-annual
Nitrite + Nitrate, Total (as N)	mg/l	N/A	Report	Grab	Semi-annual
Cyanide, Total (as CN)	ug/l	N/A	Report	Grab	Semi-annual

Hardness, Total (as CaCO <sub>3</sub> ) (H)	mg/l	N/A	Report	Grab	Semi-annual
Magnesium, Total Recoverable	mg/l	N/A	Report	Grab	Semi-annual
Magnesium, Dissolved (as Mg)	mg/l	N/A	Report	Grab	Semi-annual
Sulfates, Total (as SO <sub>4</sub> )	mg/l	N/A	Report	Grab	Semi-annual
Arsenic, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Iron, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Selenium, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Barium, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Silver, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Cadmium, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Lead, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Chromium, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual
Total Dissolved Solids	mg/l	N/A	Report	Grab	Semi-annual
Mercury, Total Recoverable	ug/l	N/A	Report	Grab	Semi-annual

\* Report Daily Minimum.

(a) Must be based on using pH and temperature values measured on the same day as the Ammonia sample was taken.

(c) Respondent shall continue the series of tests described below to evaluate whole effluent toxicity of the discharge from outfall D-001. All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F, or the most current edition. The control water and dilution water used will be moderately hard water as described in EPA/600/4-90/027F, Table 6, or the most current edition. A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted concurrently or no greater than 30 days before the date of the "routine" test, with each species used in the toxicity tests. The results of all toxicity tests shall be submitted with the Discharge Monitoring Report (DMR). Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

(1) Respondent shall conduct 96-hour acute static renewal toxicity tests using the daphnid, Ceriodaphnia dubia, and the bannerfin shiner, Cyprinella leedsii. All tests will be conducted on four separate grab samples collected at evenly spaced (6-hr) intervals

over a 24-hour period and used in four separate tests in order to catch any peaks of toxicity and to account for daily variations in effluent quality.

(2) If control mortality exceeds 10% for either species in any test, the test for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species. If, in any separate grab sample test, 100% mortality occurs prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity.

(3) The toxicity tests specified above shall be conducted once every six months (semiannually).

(4) Results from "routine" tests shall be reported according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition), and shall be submitted to:

Florida Department of Environmental Protection  
Central District Office  
3319 Maguire Boulevard Suite 232  
Orlando, FL, Florida 32803-3767

(5) All "routine" tests shall be conducted using a control (0% effluent) and a test concentration of 100% final effluent.

(6) Mortalities of greater than 50% in a 100% effluent in any "routine" sample or an LC50 of less than 100% effluent in any additional definitive test will constitute a violation of these permit conditions, and Rule 62-302.200(1), Rule 62-302.500(1)(a)4 and Rule 62-4.244(3)(a), F. A. C.

(7) If unacceptable acute toxicity (greater than 20% mortality of either test species in any grab sample test) is found in a "routine" test, the Respondent shall

conduct three additional tests on each species indicating unacceptable toxicity. The first additional test will include four grab samples taken as described in Paragraph 17(c)(1), above, and run as four separate definitive analyses. The second and third additional definitive tests will be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the "routine" test. Results for each additional test will include the determination of LC50 values with 95% confidence limits.

(8) The first additional test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5% and 6.25% effluent. The dilution series may be modified in the second and third test to more accurately identify the toxicity, such that at least two dilutions above and two dilutions below the target toxicity and a control (0% effluent) are run.

(9) For each additional test, the sample collection requirements and the test acceptability criteria specified in Paragraphs 17(c)(1) & (2), above, must be met for the test to be considered valid. The first test shall begin within two weeks of the end of the "routine" tests, and shall be conducted weekly thereafter until three additional, valid tests are completed. The additional tests will be used to determine if the toxicity found in the "routine" test is still present.

(10) Results from additional tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027F, Section 12, or the most current edition and submitted within 45 days of completion of the third additional, valid test. Upon completion of the third additional test, the Respondent will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the unacceptable acute toxicity.

(d) The sampling program required in this condition contains minimum requirements. More frequent samples may be analyzed at the Respondent's discretion. All available, valid data shall be reported and incorporated into the self-monitoring reports submitted to the Department. The "Daily Average" is the limit for the average of all samples taken within a thirty (30) day period. The "Daily Maximum" is the highest allowable individual sample analysis result within the same 30 day period.

(e) There shall be no discharge of floating solids or visible foam in other than trace amounts. The discharge shall not cause a visible sheen on the receiving waters.

(f) These monitoring requirements do not act as State of Florida Department of Environmental Protection Wastewater Permit effluent limitations, nor do they authorize or otherwise justify violation of the Florida Air and Water Pollution Control Act ("Act"), Part I, Chapter 403, F.S., during the pendency of this Amended Consent Agreement. Tests conducted pursuant to this monitoring program shall conform to Chapter 62-160, F.A.C.

(g) Analyses shall be reported once each month on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10) attached to this Amended Consent Agreement as Exhibit 1. These reports shall be mailed to the Department of Environmental Protection, Wastewater Facilities Regulation Section, 2600 Blair Stone Road, Mail Station 3551, Tallahassee, Florida 32399-2400, once each month and must be received by the Department no later than the 28th day following the end of the reporting period (e.g., the August report would be due not later than September 28th.)

18. In the event of a sale or conveyance of the Facility or of the property upon which the Facility is located, if all of the requirements of this Amended Consent Agreement have not been fully satisfied, Respondent shall, at least 30 days prior to the sale or conveyance of the

property or Facility, (1) notify the Department of such sale or conveyance, (2) provide the name and address of the purchaser, or operator, or person(s) in control of the Facility, and (3) provide a copy of this Amended Consent Agreement with all attachments to the new owner. The sale or conveyance of the Facility, or the property upon which the Facility is located shall not relieve the Respondent of the obligations imposed in this Amended Consent Agreement.

19. If any event, including administrative or judicial challenges by third parties unrelated to the Respondent, occurs which causes delay or the reasonable likelihood of delay, in complying with the requirements of this Amended Consent Agreement, Respondent shall have the burden of proving the delay was or will be caused by circumstances beyond the reasonable control of the Respondent and could not have been or cannot be overcome by Respondent's due diligence. Economic circumstances shall not be considered circumstances beyond the control of Respondent, nor shall the failure of a contractor, subcontractor, materialman or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines be a cause beyond the control of Respondent, unless the cause of the contractor's late performance was also beyond the contractor's control. Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department orally within 24 hours or by the next working day and shall, within seven calendar days of oral notification to the Department, notify the Department in writing of the anticipated length and cause of the delay, the measures taken or to be taken to prevent or minimize the delay and the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder

shall be extended for a period equal to the agreed delay resulting from such circumstances. Such agreement shall adopt all reasonable measures necessary to avoid or minimize delay.

20. This Amended Consent Agreement shall terminate upon completion of Paragraphs 11, 12, 13 and 14. The Department shall issue a letter acknowledging such termination for timely compliance upon a written request by the Respondent.

21. — Persons who are not parties to this Amended Consent Agreement, but whose substantial interests are affected by this Amended Consent Agreement, have a right, pursuant to Sections 120.569 and 120.57, F.S., to petition for an administrative hearing on it. The Petition must contain the information set forth below and must be filed (received) at the Department's Office of General Counsel, 3900 Commonwealth Boulevard, MS# 35, Tallahassee, Florida 32399-3000 within 21 days of receipt of this notice. A copy of the Petition must also be mailed at the time of filing to the District Office named above at the address indicated. Failure to file a petition within the 21 days constitutes a waiver of any right such person has to an administrative hearing pursuant to Sections 120.569 and 120.57, F.S.

The petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department's Amended Consent Agreement identification number and the county in which the subject matter or activity is located; (b) A statement of how and when each petitioner received notice of the Amended Consent Agreement; (c) A statement of how each petitioner's substantial interests are affected by the Amended Consent Agreement; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Amended Consent Agreement; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Amended Consent Agreement; (g) A statement of the relief



sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Amended Consent Agreement.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the subject Amended Consent Agreement have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 21 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Sections 120.569 and 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Florida Administrative Code Rule 28-106.205.

A person whose substantial interests are affected by the Amended Consent Agreement may file a timely petition for an administrative hearing under Sections 120.569 and 120.57, Florida Statutes, or may choose to pursue mediation as an alternative remedy under Section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth below.

Mediation may only take place if the Department and all the parties to the proceeding agree that mediation is appropriate. A person may pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the Respondent, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the

substantial interests of each mediating party are affected by the Amended Consent Agreement. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS #35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) The name of each party's representative who shall have authority to settle or recommend settlement; and
- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.
- (h) The signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by sections 120.569 and 120.57, F.S., for

requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within 21 days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

22. Respondent shall allow all authorized representatives of the Department access to the property and facility at reasonable times for the purpose of determining compliance with the terms of this Amended Consent Agreement and the rules and statutes of the Department.

23. All submittals required by this Amended Consent Agreement to be submitted to the Department shall be sent to the Florida Department of Environmental Protection, Central District Office, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767.

24. This Amended Consent Agreement is a settlement of the Department's civil and administrative authority arising under Florida law to resolve the matters addressed herein. Respondent's signing of the Amended Consent Agreement is not to be construed as an admission of any wrong doing, or any civil or criminal liability for any violations of state or federal laws or regulations alleged by the Department.

25. The Department hereby expressly reserves the right to initiate appropriate legal action to prevent or prohibit any violations of applicable statutes, or the rules promulgated thereunder that are not specifically addressed by the terms of this Amended Consent Agreement.

26. The terms and conditions set forth in this Amended Consent Agreement may be enforced in a court of competent jurisdiction pursuant to Sections 120.69 and 403.121, Florida Statutes. Failure to comply with the terms of this Amended Consent Agreement shall constitute a violation of Section 403.161(1)(b), Florida Statutes.

27. The Department, for and in consideration of the complete and timely performance by Respondent of the obligations agreed to in this Amended Consent Agreement, hereby waives its right to seek judicial imposition of damages or civil penalties for alleged violations through the date of the filing of this Amended Consent Agreement as addressed in this Amended Consent Agreement.

28. Respondent is fully aware that a violation of the terms of this Amended Consent Agreement may subject Respondent to judicial imposition of damages, civil penalties up to \$10,000.00 per day per violation, and criminal penalties.

29. Entry of this Amended Consent Agreement does not relieve Respondent of the need to comply with applicable federal, state or local laws, regulations or ordinances.

30. No modifications of the terms of this Amended Consent Agreement shall be effective until reduced to writing and executed by both Respondent and the Department.

31. Respondent acknowledges and waives its right to an administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, on the terms of this Amended Consent Agreement. Respondent acknowledges its right to appeal the terms of this Amended Consent

Agreement pursuant to Section 120.68, Florida Statutes, and waives that right upon signing this Amended Consent Agreement.

32. This Amended Consent Agreement is a final order of the Department pursuant to Section 120.52(7), Florida Statutes, and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, Florida Statutes. Upon the timely filing of a petition this Amended Consent Agreement will not be effective until further order of the Department.

FOR THE RESPONDENT:

ORANGE COUNTY, FLORIDA

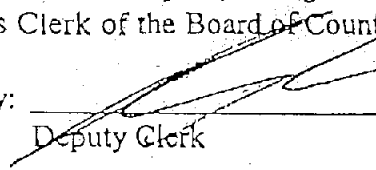
By: Board of County Commissioners

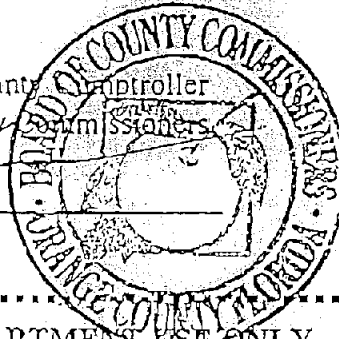
Date: 8.5.03

By:

  
Richard T. Crotty  
County Chairman

ATTEST: Martha O. Haynie, Orange County Controller  
as Clerk of the Board of County Commissioners


By:   
Deputy Clerk



FOR DEPARTMENT USE ONLY

DONE AND ENTERED this 2nd day of September, 2003.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Vivian F. Garfein  
Director, Central District

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to  
§120.52, Florida Statutes,

With the designated Department  
Clerk, receipt of which is hereby  
Acknowledged.

*A. Salome*  
Clerk

9/2/2003  
Date

VFG:ca

Copies furnished to: Kathy Carter, OGC  
David O'Brien, Enforcement Coordinator

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater  
2600 Blairstone Rd., Mail Station 3551  
Tallahassee, FL 32399-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department  
Orlando, FL 32872-0067  
Arlin J. James, Decker, Manager  
MAILING ADDRESS: P. O. Box 720067  
Orlando, FL 32872-0067

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32825  
COUNTY: Orange

DISCHARGE POINT NUMBER: D-001  
PLANT SIZE/TREATMENT TYPE: NA

To: REPORT: Monthly  
GROUP: IV

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.			
Flow									
PARM No. 50050 1	Sample Measurement								
Mon. Site No. EFF-001	Permit Requirement	Report	MGD	NA	NA	NA		Daily	Melted
Flow									
PARM No. 50050 1	Sample Measurement								
Mon. Site No. LEC-1	Permit Requirement	Report	MGD	NA	NA	NA		Daily	Measured
BOD5									
PARM No. 80082 1	Sample Measurement								
Mon. Site No. EFF-01	Permit Requirement	NA	NA	NA	Report	Report		Monthly	Grab
Total Suspended Solids (TSS)									
PARM No. 00330 1	Sample Measurement								
Mon. Site No. EFF-01	Permit Requirement	NA	NA	NA	Report	Report		Monthly	Grab
Dissolved Oxygen									
PARM No. 00300 1	Sample Measurement								
Mon. Site No. EFF-01	Permit Requirement	NA	NA	Report	Report	Report		Weekly	In-situ
Total Nitrogen as N									
PARM No. 00600 1	Sample Measurement								
Mon. Site No. EFF-01	Permit Requirement	NA	NA	NA	Report	Report		Monthly	Grab

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer Or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Please read instructions before completing this form.

Parameter	Sample Measurement	Quantity or Loading			Quality or Concentration			No. Ev.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min.	Avg.	Max.			
TKN as N	Sample Measurement	NA	NA	NA	NA					
PARM No. 00625 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	Grab
Ammonia as N	Sample Measurement	NA	NA	NA	NA					
PARM No. 00610 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	Grab
Un-ionized Ammonia as NH <sub>3</sub>	Sample Measurement	NA	NA	NA	NA					
PARM No. 00619 1 Mon. Site No. EFF-01	Permit Requirement					≤ 0.02	≤ 0.02		Monthly	Calculate
Temperature	Sample Measurement	NA	NA	NA	NA					
PARM No. 00010 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	In-situ
Total Phosphorous (as P)	Sample Measurement	NA	NA	NA	NA					
PARM No. 00665 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	Grab
Chloride Total	Sample Measurement	NA	NA	NA	NA					
PARM No. 00940 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	Grab
Sulfates Total	Sample Measurement	NA	NA	NA	NA					
PARM No. 00943 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	Grab
Specific Conductance	Sample Measurement	NA	NA	NA	NA					
PARM No. 00095 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	In-situ
Total Dissolved Solids (TDS)	Sample Measurement	NA	NA	NA	NA					
PARM No. 20296 1 Mon. Site No. EFF-01	Permit Requirement					Report	Report		Monthly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.			
Total Organic Carbon (TOC)									
PARM No. 00680 1	Sample Measurement		NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab
TSPH (Total Recoverable Petroleum (hydrocarbon))									
PARM No. 31666 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab
Oil and Grease									
PARM No. 00556 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab
Total Hardness as CaCO <sub>3</sub> (H)									
PARM No. 00900 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab
pH									
PARM No. 00400 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. EFF-01	Permit Requirement							Daily	Grab
Total Recoverable Arsenic									
PARM No. 00978 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab
Total Recoverable Cadmium									
PARM No. 01113 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab
Total Recoverable Chromium									
PARM No. 01118 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab
Total Recoverable Copper									
PARM No. 01119 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-01	Permit Requirement				Report	Report		Monthly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Part A continued  
File No.:

Facility Name: Orange County Class I & II Landfill; Stormwater/Leachate Disposal  
Consent/Agreement: OCG-FILE NO. 00-0710

Discharge Point # D-001

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.	Units			
Total Recoverable Iron	NA	NA	NA	NA	Report	Report	ug/l		Monthly	Grab
PARM No. 00980 I Mon. Site No. EFF-01										
Total Recoverable Lead	NA	NA	NA	NA	Report	Report	ug/l		Monthly	Grab
PARM No. 01114 I Mon. Site No. EFF-01										
Total Recoverable Mercury	NA	NA	NA	NA	Report	Report	ug/l		Monthly	Grab
PARM No. 71901 I Mon. Site No. EFF-01										
Total Recoverable Manganese	NA	NA	NA	NA	Report	Report	ug/l		Monthly	Grab
PARM No. 11123 I Mon. Site No. EFF-01										
Total Recoverable Selenium	NA	NA	NA	NA	Report	Report	ug/l		Monthly	Grab
PARM No. 00981 I Mon. Site No. EFF-01										
Total Recoverable Silver	NA	NA	NA	NA	Report	Report	ug/l		Monthly	Grab
PARM No. 01079 I Mon. Site No. EFF-01										
Total Sodium	NA	NA	NA	NA	Report	Report	ug/l		Monthly	Grab
PARM No. 00929 I Mon. Site No. EFF-01										
Total Recoverable Zinc	NA	NA	NA	NA	Report	Report	mg/l		Monthly	Grab
PARM No. 01094 I Mon. Site No. EFF-01										
					Report	Report	ug/l		Monthly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater

2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 32309-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department

MAILING ADDRESS: P.O. Box 720067

Orlando, FL 32872-0067

Attn: James Decker, Manager

FACILITY: Orange County Class I & II Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32825

COUNTY: Orange

To: REPORT: Toxicity

GROUP: IV

LIMIT: Interim

CLASS SIZE: Minor

File No.: 48-FL0037133-001-4W7A

DISCHARGE POINT NUMBER: D-001

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 96-Hour Acute STATRE Ceriodaphnia dubia	Sample Measurement						
Parameter No. TANJB P Mon. Site No. EFF-01	Permit Requirement		100% * (Min)	%		Semi Annually	Grab
LC50 96-Hour Acute STATRE Ceriodaphnia dubia	Sample Measurement						
Parameter No. TANJD Q Mon. Site No. EFF-01	Permit Requirement		100% * (Min)	%		As Required	Grab
LC50 96-Hour Acute STATRE Cyprinella leucis	Sample Measurement						
Parameter No. TANGH P Mon. Site No. EFF-01	Permit Requirement		100% * (Min)	%		Semiannually	Grab
LC50 96-Hour Acute STATRE Cyprinella leucis	Sample Measurement						
Parameter No. TANGH Q Mon. Site No. EFF-01	Permit Requirement		100% * (Min)	%		As Required	Grab

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

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE NO.

DATE (YYMMDD)

P = ROUTINE TESTS; Q = ADDITIONAL TESTS - Enter NODE=9 if monitoring is not required this month.

\*Endpoint to be determined; may be 100%, will be developed under the Consent Order and may be revised.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A  
 WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater  
 2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 32399-2400

PERMITTEE NAME: Orange County Utilities Department/Solid Waste Department  
 MAILING ADDRESS: P. O. Box 720067  
 Orlando, FL 32872-0067

Attn: James Decker, Manager

FACILITY: Orange County Class I & II Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32825  
 COUNTY: Orange

To: REPORT: SEMI-ANNUALLY  
 GROUP: IV

MONITORING PERIOD: Front  
 LIMIT: Interim  
 CLASS SIZE: Minor  
 File No.: 48-FL0037133-001-1W7A

DISCHARGE POINT NUMBER: D-004  
 PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.			
Flow									
PARM No. 00050 I	Sample Measurement								
Mon. Site No. WIM-01	Permit Requirement	Report	MGD	NA	NA	NA		Daily	Measured
Chemical Oxygen Demand (COD)									
PARM No. 81017 I	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement					Report		Semi Annually	Grab
Dissolved Oxygen									
PARM No. 00300 I	Sample Measurement	NA	NA	NA					
Mon. Site No. WIM-01	Permit Requirement				Report			Semi Annually	In-situ
Total Organic Nitrogen as N									
PARM No. 00605 I	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement					Report		Semi Annually	Grab
TNN as N									
PARM No. 00625 I	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement					Report		Semi Annually	Grab
Ammonia as N									
PARM No. 00610 I	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement					Report		Semi Annually	Grab

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer Or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

zrl A continued

Facility Name:  
File No.:

Orange County Class I & III Landfill, Nonhazardous/Recyclable Disposal  
4810 000710-001-1W7A Consent Agreement: OCG#LE-NO. 00-0710

Discharge Point # 12-004

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.			
Un-ionized Ammonia as NH <sub>3</sub>									
PARM No. 00619 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement								
Total Nitrite and Nitrate as N								Semi Annually	Calculate
PARM No. 00630 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement							Semi Annually	Grab
Temperature									
PARM No. 00010 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement							Semi Annually	In-situ
Total Phosphorous (as P) Elemental									
PARM No. 00442 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement							Semi Annually	Grab
Sulfates Total (as SO <sub>4</sub> )									
PARM No. 00945 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement							Semi Annually	Grab
Total Dissolved Solids (TDS)									
PARM No. 70296 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement							Semi Annually	Grab
Total Suspended Solids (TSS)									
PARM No. 00530 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement							Semi Annually	Grab
Total Organic Carbon									
PARM No. 00680 1	Sample Measurement	NA	NA	NA	NA				
Mon. Site No. WIM-01	Permit Requirement							Semi Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

171 A continued

Facility Name: Orange County Class 1 & 10 Landfill, Stormwater/Leachate Disposal  
 File No.: 48-PD0037133-00-1-W7A

Consent Agreement: OCG FILE NO. 00-0710

Discharge Point # D-004

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.			
Oil and Grease	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
ARM No. 00556 I Mon. Site No. WIM-01	Sample Measurement	NA	NA	NA	NA	8.5			
	Permit Requirement	NA	NA	6.0	NA	8.5		Semi Annually	Grab
ARM No. 00400 I Mon. Site No. WIM-01	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
ARM No. 00900 I Mon. Site No. WIM-01	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
ARM No. 00978 I Mon. Site No. WIM-01	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
ARM No. 01009 I Mon. Site No. WIM-01	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
Total Recoverable Cadmium	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
ARM No. 01113 I Mon. Site No. WIM-01	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
Total Recoverable Chromium	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab
ARM No. 00980 I Mon. Site No. WIM-01	Sample Measurement	NA	NA	NA	NA	Report			
	Permit Requirement	NA	NA	NA	NA	Report		Semi Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

rel A continued

Discharge Point # D-004

Facility Name: Orange County Class 1 & III Landfill, Stormwater/Leachate Disposal  
File No.: 48-PF0037133-001-1397A Consent Agreement File NO. 00-0710

Please read instructions before completing this form.

Parameter	Quantity of Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Avg.	Max.	Units				
Total Recoverable Lead										
PARM No. 01114 1										
Mon. Site No. WIM-01										
Total Recoverable Mercury										
PARM No. 71901 1										
Mon. Site No. WIM-01										
Total Recoverable Magnesium										
PARM No. 00921 1										
Mon. Site No. WIM-01										
Dissolved Magnesium (as Mg)										
PARM No. 00925 1										
Mon. Site No. WIM-01										
Total Recoverable Selenium										
PARM No. 00981 1										
Mon. Site No. WIM-01										
Total Cyanide as (CN)										
PARM No. 00720 1										
Mon. Site No. WIM-01										
Total Recoverable Silver										
PARM No. 01079 1										
Mon. Site No. WIM-01										

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



Three-Month Average Daily Flow: NA

Facility I.D. Number: 48-FL0037133-001-1W7A

OCC File No. 00-0710

## Interim Limits

Daily Flow % of Permitted Capacity NA

[illegible]

PLANT STAFFING:		Certificate No.:	Name:
Day Shift Operator	Class:	Certificate No.:	Name:
Evening Shift Operator	Class:	Certificate No.:	Name:
Night Shift Operator	Class:	Certificate No.:	Name:
Lead Operator	Class:	Certificate No.:	Name:

Type of Effluent Disposal or Recycled Water Reuse: NA  
 Limited Wet Weather Discharge Activated: ☒ Yes ☐ No  
 If yes, cumulative days of wet weather discharge: NA

\* Attach additional sheets if necessary to list all certified operators. NA

TOTAL P.32

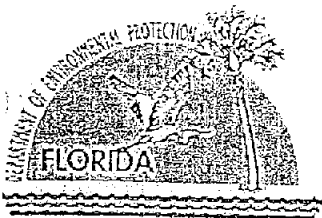
D.E.P. - ORLANDO

B-5

**Operating Permits for Class I – Cell 7B/8 & Class III – Cell 1**

**(April 3, 2003)**

**Permit Numbers SO48-0128169-014 and SO48-0128169-015**



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

## NOTICE OF PERMIT

By E-Mail  
[Jim.Becker@ocfl.net](mailto:Jim.Becker@ocfl.net)

In the matter of an  
Application for Permit  
by:

Orange County Utilities Department  
Solid Waste Division  
5901 Young Pine Road  
Orlando, FL 32829

Attention: James W. Becker

Orange County - SW  
Orange County Landfill, Class I - Cell 7B/8 & Class III - Cell 1 - Operation

Enclosed are Permit Numbers SO48-0128169-014 & SO48-0128169-015, to operate the Orange County Landfill, Class I - Cell 7B/8 & Class III - Cell 1, 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, Jr., P.E. for

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

Date: April 3, 2003

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*

4/3/03

[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 April 3, 2003 to the listed persons.

VFG/rc/ew

Enclosure

Copies furnished to:

Richard Tedder, P.E. - DEP - Tallahassee

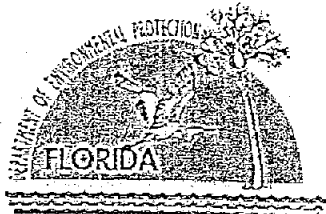
Fred Wick - DEP - Tallahassee (w/o attachments)

Orange County Environmental Protection Department

R.J. Bruner III, P.E. - CH2M/WCG

[Bbruner@ch2m.com](mailto:Bbruner@ch2m.com)

L. Kozlov, P.E. - DEP - Central District



# Department of Environmental Protection

Jeb Bush

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

David B. Struhs  
Secretary

Permittee:  
Orange County Utilities Department  
Solid Waste Division  
5901 Young Pine Road  
DeLand, Florida 32724

Attention: Mr. James W. Becker

Permit Numbers:  
SO48-0128169-014 & SO48-0128169-015  
Date of Issue:  
Expiration Date: 02/05/2008  
County: Orange  
Section/Township/Range:  
14, 15, 16, 21, 22, 23, 27 and 28  
23 South / 31 East  
Latitude / Longitude:  
28°28'54" North / 81°11'30 West  
Project: Orange County Landfill, Class I - Cell  
7B/8 & Class III - Cell 1

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 or 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 operate the Orange County Landfill, Class I - Cell 7B/8 & Class III - Cell 1 to provide uninterrupted Class I and Class III solid waste disposal capacity for Orange County residents and businesses.

## CLASS I - Cell 7B/8

The present service area for the Class I landfill is the incorporated and unincorporated areas of Orange County except the cities of Lake Buena Vista and Bay Lake. The type of waste received at the Cell 7B/8 disposal area includes residential, commercial and industrial Class I waste, industrial and domestic sludge, water and air treatment sludge, and recyclable material residue.

The current landfill operations are in the lined Class I waste disposal area located in Cell 8 which is a horizontal expansion of Cell 7B. Cell 8 is constructed with a bottom composite liner consisting of 12 inches of  $1 \times 10^{-8}$  cm/sec. clay overlain by a 60-mil High Density Polyethylene (HDPE) geomembrane, overlain with a leachate collection and removal system. Leachate will be pumped or trucked to an off-site wastewater treatment facility or recirculated on the lined areas on an intermittent basis such as during wastewater treatment facility upsets or leachate pumping equipment failures.

## CLASS III - Cell 1

The Class III landfill is an unlined solid waste disposal facility and serves all incorporated and unincorporated areas of Orange County except the cities of Lake Buena Vista and Bay Lake. As per Rule 62-701.200(14) Florida Administrative Code, waste accepted at the Class III landfill shall be Class III materials only.

Leachate from the site shall be controlled by an inward gradient pumping system which discharges ground water mixed with diluted leachate and stormwater to the on-site wetlands treatment system. Water from the wetlands treatment system currently discharges to the South Ditch leading to the Little

Econ River. Upon completion of a pipeline to Orlando Utilities Commission's Curtis H. Stanton Energy Center, this water will be pumped to the Energy Center's holding pond for use as makeup water.

GENERAL

Other operations at the County landfill included in this permit are waste tire processing, household hazardous waste collection, white goods storage and asbestos disposal. Other operations at the County landfill not included in this permit are administration area, scalehouse, yard waste composting, small vehicle waste drop-off, and materials recovery facility.

The Class I and Class III landfills have a gas management system to control odors and the migration of methane.

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

LOCATION: The landfill is located on 12100 Young Pine Road, 3 miles southeast of the Curry Ford Road/Dean Road intersection, Orlando in Orange County, Florida.

General Conditions are attached and to be distributed to the permittee only.

#### 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: Orange County Utilities Department

Permit/Certification Numbers:

SO48-0128169-014 &

SO48-0128169-015

Expiration Date: 02/05/2008

Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill

1. Plans and Specifications: Drawings, plans, documents and specifications submitted by the permittee, not attached hereto, but remain on file at the Central District office, 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. Effluent Discharge: There shall be no discharge of liquid effluents or contaminated runoff to surface or ground water without prior approval from this Department.
9. Surface Water Management: All surface water runoff from 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.
10. 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.
11. Gas Monitoring: The landfill shall implement a gas management system to comply with Rule 62-701.530, F.A.C.
12. Monitoring Plan Implementation Schedule: The Monitoring Plan Implementation Schedule attached as Exhibit I, is made a part of this permit.
13. 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.

PERMITTEE: Orange County Utilities Department

Permit/Certification Numbers:

SO48-0128169-014 &

SO48-0128169-015

Expiration Date: 02/05/2008

Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill

14. 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.
15. Operation of Pollution Control Devices: The leachate, gas and stormwater control systems shall be properly operated, monitored and maintained (Rule 62-701.500, F.A.C.)
16. 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, take corrective action to abate the adverse odor.
17. Final Cover Surface Gradient: The top gradient of the final cover surface shall take into consideration the effects of expected subsidence caused by settling and decomposition of the fill material to minimize ponding and erosion.
18. 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.
19. Operation Training Compliance: The Orange County Landfill shall comply with Rule 62-701.320(15), F.A.C. - Operator training.
20. Operations Plan: An operations plan prepared by the engineer of record which shall include the sequence of filling, compaction, placement of cover, day to day operations, etc., shall be kept at the facility. The operator shall be trained and knowledgeable about the plan.
21. 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.
22. 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.).
23. 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.

PERMITTEE: Orange County Utilities Department

Permit/Certification Numbers:

SO48-0128169-014 &

SO48-0128169-015

Expiration Date: 02/05/2008

Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill

24. Asbestos Disposal: Asbestos disposal shall meet the requirements of 40 CFR Part 61.154. After placement of the asbestos, landfill personnel shall place a minimum of six (6) inches of cover soil immediately over the asbestos. Records shall be kept for all asbestos containing materials received at the landfill.
25. Solid Waste Burning: Burning of solid waste is prohibited in accordance with Rule 62-701.300(3), F.A.C. Any fires 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.
26. Waste Tires: The permittee can operate a waste tire site and waste tires shall be received, stored and processed in accordance with the Waste Tire Rule, Chapter 62-711, F.A.C.
27. Household Hazardous Waste Transfer Facility: The household hazardous waste transfer facility consists of a hazardous waste storage building, a battery storage building and a waste oil storage tank which are intended to minimize the quantities of these materials disposed of in the landfill. The household hazardous waste transfer facility shall operate in accordance with the Hazardous Waste Rule, Chapter 62-730, F.A.C.; Section 403.7225, F.S., related to local hazardous waste management assessment; Section 403.7234, F.S., concerning conditionally exempt generator notification and verification; and Section 403.7264, F.S., dealing with Amnesty Days. The hazardous waste collection program shall allow the private contractor to collect wastes from conditionally exempt generators (those generating 100 kg or less of hazardous waste per month).
28. 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.
29. Ground Water, Surface Water, and Gas Migration: Ground water, surface water, and gas migration at the site shall be monitored for up to 30 years following landfill closure.
30. 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.
31. Financial Responsibility: The permittee shall maintain compliance with the financial assurance requirements of Rule 62-701.630, F.A.C. by submitting all required updated supporting documentation 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. All submittals in response to this specific condition shall be submitted to the Financial Coordinator, 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.

PERMITTEE: Orange County Utilities Department

Permit/Certification Numbers:

SO48-0128169-014 &

SO48-0128169-015

Expiration Date: 02/05/2008

Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill

32. 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.
33. 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 District Air Program Administrator.
34. 40 CFR 60 Requirements: The permittee shall comply with the 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).
35. Substantial Changes or Revisions: The Department shall be notified and approval shall be obtained prior to executing any substantial changes or revisions to the operation authorized by this permit.

PERMITTEE: Orange County Utilities Department

Permit/Certification Numbers:

SO48-0128169-014 &

SO48-0128169-015

Expiration Date: 02/05/2008

Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill - Class I, Cell 7B/8

CLASS I - CELL 7B/8

36. 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 Rules 62-302, 62-4 and 62-520, F.A.C., unless the leachate is transmitted to a permitted treatment facility.
37. 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.
38. Leachate Collection and Transmission System: The leachate collection and transmission system shall collect and convey leachate so that the liner leachate depth shall not exceed one foot under normal operating conditions.
39. Leachate Storage Tanks: The integrity of the leachate storage tanks shall be checked on a weekly basis so that no leachate releases to the soils will occur. The storage tanks shall be maintained and operated in accordance with Rule 62-701.400(6), F.A.C.
40. 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.
41. Waste Compaction and Working Face: 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.
42. Initial Cover and Intermediate Cover: Initial cover shall be applied at the end of each working day except the working face which may be covered with temporary cover if solid waste will be placed on it within 18 hours. An intermediate cover of one (1) foot of compacted earth in addition to the 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.
43. Stormwater Terraces: Temporary stormwater terraces shall be completed at 20-foot vertical increments. Side slopes of the terraces and any related swales shall not exceed a 33 percent grade (3 horizontal to 1 vertical). Grass cover, mulch or other erosion control procedures shall be placed and maintained on the terraces and side slopes to reduce erosion and control the loss of intermediate cover material.
44. Stormwater Drainage: Stormwater drainage shall consist of benched terraces every 20 vertical feet starting at the toe of the landfill. These terraces will bring the stormwater down through a series of letdown structures to a perimeter ditch at the toe of the landfill.

PERMITTEE: Orange County Utilities Department

Permit/Certification Numbers:

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SO48-0128169-015

Expiration Date: 02/05/2008

Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill - Class I, Cell 7B/8

45. Domestic Food Service Sludge and Septage: Domestic, food service sludge and septage to be disposed in the landfill shall be dewatered (paint filter test) and shall be disposed of in a manner that does not interfere with compacting and maintaining proper slopes.
46. Landfill Elevation: The final (maximum) elevation of the Orange County Landfill, Class I in Subbasins 7B and 8 shall be 244 feet NGVD as per the permit application and supporting documents submitted December 11, 2002.
47. Solid Waste Disposal Rate: The average solid waste disposal rate for this source is 1,800 tons per day as stated in the application. Actual operating rates may vary depending upon business conditions.
49. Condensate Disposal Methods: Condensate collected from the LFG system shall be added to the existing leachate holding tank for subsequent transmittal along with leachate to the wastewater treatment plant for treatment and disposal.
50. Cover System: In descending order, the cover system shall consist of 6 inches of topsoil, 18 inches of granular fill, one layer of textured 40-mil linear low density polyethylene geomembrane (LLDPE) and 12 inches of granular fill to protect the geomembrane from the underlying solid waste. Bahia grass seed and sod, a drought resistant vegetative cover shall be used to seed and sod the closure area.
51. Side Slope Design: The side slope of the closure area shall not be steeper than 4 horizontal to 1 vertical and will be sodded to minimize erosion.
52. Odor Control: Odor control shall be accomplished by using the collected LFG as an energy source. The active vacuum-extraction management system shall collect the LFG and then transmit it to the nearby Orlando Utilities Commission power plant. In the event that LFG utilization is temporarily unavailable, oxidation of LFG at the flare station shall be used as an alternative method of odor control.

PERMITTEE: Orange County Utilities Department

Permit/Certification Numbers:

SO48-0128169-014 &

SO48-0128169-015

Expiration Date: 02/05/2008

Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill - Class III, Cell 1

CLASS III - CELL 1

53. Zone of Discharge: The zone of discharge for the Class III landfill 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 south to the south berm and extending west, north and east to near the original 1500 acre landfill boundary as defined by the compliance perimeter monitoring wells as shown in Attachment B in Exhibit I. 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.
54. Waste Compaction & Working Face: Solid waste shall be spread in layers and compacted at least weekly, using suitable heavy equipment. 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 (3) feet horizontal to one (1) foot vertical rise. The working face shall be only wide enough to efficiently accommodate vehicles discharging waste and to minimize the exposed area and the use of unnecessary cover material.
55. Initial Cover and Intermediate Cover: Initial cover shall be applied at least once every week. 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 additional solid waste will not be deposited 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.
56. Final Cover: All areas filled with Class III waste shall have a final cover of soil to minimize infiltration and erosion. Final cover and seeding for planting of vegetative cover shall be placed over each completed cell within 180 days after the final waste deposit. The final cover shall consist of one of the two following design options:
- a) Clay Cover System: The clay final cover option shall consist of a 12-inch common soil leveling course, overlain by 18 inches of clay with a maximum hydraulic conductivity of  $1 \times 10^{-5}$  cm/s, overlain by a composite drainage layer consisting of a geonet thermally bonded to geotextile above and below, overlain by a 12-inch common soil protective layer, overlain by 6 inches of top soil that will sustain vegetative growth to help minimize erosion. The clay layer shall be emplaced in 6-inch lifts and compacted to a final minimum thickness of 18 inches.
  - b) Geomembrane Cover System: The geomembrane final cover option shall consist of a 12-inch common soil leveling course, overlain by one layer of 40-mil textured linear low density polyethylene (LLDPE), overlain by a composite drainage layer consisting of a geonet thermally bonded to geotextile above and below, overlain by an 18-inch common soil protective layer, overlain by 6 inches of top soil that will sustain vegetative growth to help minimize erosion. The LLDPE layer shall comply with the requirements of Rule 62-701.600(5)(g)4, Florida Administrative Code.
57. Stormwater Infiltration: Infiltration of stormwater runoff into the closed landfill shall be minimized by capping of the landfill with a barrier soil layer as part of the final cover system required by Rule 62-701.600(5)(g), F.A.C., and properly sloping the landfill surface to allow stormwater to drain from the landfill in a controlled manner.

PERMITTEE: Orange County Utilities Department

Permit/Certification Numbers:

SO48-0128169-014 &

SO48-0128169-015

Expiration Date: 02/05/2008

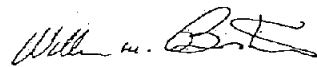
Attention: Mr. James W. Becker

SPECIFIC CONDITIONS: Orange County Landfill - Class III, Cell 1

58. Unacceptable Waste: Garbage, white goods, waste oil, hazardous wastes, infectious waste, putrescible waste and any other prohibited materials inadvertently received at the facility shall be immediately removed from the waste stream and shall be properly disposed.
59. Allowable Waste: As per Rule 62-701.200(14), F.A.C., this facility shall only process wastes that are acceptable for disposal at a Department permitted Class III landfill.
60. Final Grade: The final (maximum) elevation of the Class III landfill shall be 194 ft NGVD.
61. Disposal Rate: The solid waste disposal rate for the Class III landfill is 500 tons/day. Actual operating rates may vary depending upon business conditions.
73. Drainage Terraces: Drainage terraces shall be constructed around the full circumference of the proposed Class III landfill at elevations 95, 125, and 155 ft NGVD. These drainage terraces shall be 30 feet wide and consist of grassed swales, sloped such that the runoff from the landfill area is collected and conveyed to a series of low points. At these low points, drainage inlets shall be installed with outlet pipes to effectively transfer the runoff down the slope into the perimeter stormwater channels. The top deck shall be constructed with a 6% maximum slope from 185 to 194 ft NGVD and shall have a 20-foot wide perimeter berm and swale to achieve runoff collection and conveyance to the aforementioned low points.

ISSUED April 3, 2003

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

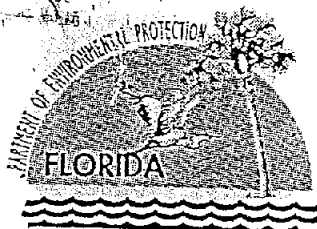


William M. Bostwick, Jr., P.E. for

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



**NPDES Permit Number 48-FL0037133 (March 15, 2001)**



Jeb Bush  
Governor

# Department of Environmental Protection

RECEIVED

11 34 AM '01

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

SOLID WASTE

David B. Struhs  
Secretary

## NOTICE OF PERMIT

### CERTIFIED MAIL

7099 3220 0006 8682 0547

In the Matter of an  
Application for Permit by:

Orange County Utilities Department  
Solid Waste Division  
5901 Young Pine Road  
Orlando, FL 32829

PERMIT NUMBER: 48 FL0037133  
FILE NUMBER: 48-FL0037133-001-IW7A  
Orange County - IW  
Orange County Landfill Minor Non-POTW/NPDES  
Discharge, Commingled Stormwater/Leachate  
Disposal

Attention: James Becker  
Manager

Enclosed is Permit Number 48-FL0037133 to operate, and construct modifications, to an existing industrial wastewater treatment and disposal system at Orange County Landfill, issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit under Section 120.68, F.S. 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, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, FL 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

Vivian F. Garfein  
Director of District Management

Date:

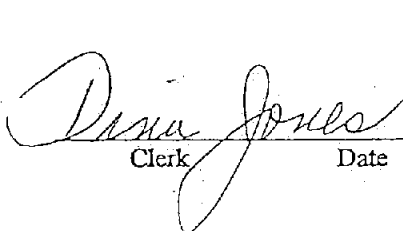
March 15, 2001

## FILING AND ACKNOWLEDGMENT

"More Protection, Less Process"

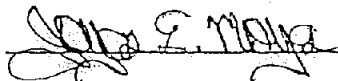
FILING AND ACKNOWLEDGMENT

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

 3/16/01  
Clerk Date

CERTIFICATE OF SERVICE

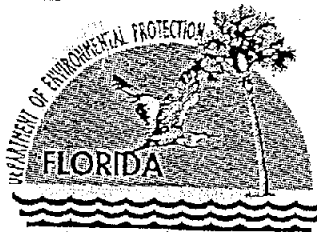
The undersigned hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 3/19/01 to the listed persons.



VFG/ak

Enclosure

cc: Stan Keely/ G & R  
Orange County EPD  
Vincent Seibold/DEP/Tallahassee  
Jim Bradner/Solid Waste/DEP



# Department of Environmental Protection

Jeb Bush  
Governor

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

David B. Struhs  
Secretary

## STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT

### PERMITTEE:

Orange County Utilities Department  
Solid Waste Division  
5901 Young Pine Road  
Orlando, Florida 32829

PERMIT NUMBER: 48-FL0037133  
DEP FILE NUMBER: 48-FL0037133-001-IW7A  
Orange County - IW  
EXPIRATION DATE: March 14, 2006  
Orange County Landfill, Minor Non-POTW/NPDES  
Discharge, Commingled Stormwater/Leachate Disposal

Attention: James Becker, Manager

### FACILITY:

Orange County Class I & III Landfill  
Commingled Stormwater/Leachate Disposal  
5901 Young Pine Road  
Orlando, Orange County, FL 32829

Outfall D-004 (formerly 001):	Latitude: 28° 29' 23.11" N	Longitude: 81° 11' 45.75" W
Outfall D-001 (overflow weir):	Latitude: 28° 28' 27.17" N	Longitude: 81° 11' 53.87" W
Outfall D-002 (formerly 002):	Latitude: 28° 28' 26.99" N	Longitude: 81° 11' 13.27" W
Outfall D-003 Proposed New Outfall. Coordinates To Be Determined.		

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to the waters of the State under the National Pollutant Discharge Elimination System (NPDES). The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows. This is an existing solid waste management facility (Sanitary Landfill Permit Number SO48-212592), which receives both Class I and Class III material. The facility has two separate leachate collection, treatment and disposal systems and an associated stormwater management system. This permit includes the Consent Agreement File Number OGC-00-0710 as a condition of the permit.

Leachate generated within cell areas that have a bottom liner and leachate collection system, is collected by perforated pipes and pumped or trucked to an offsite Publicly Owned Treatment Works (POTW). This part of the leachate collection and disposal system is not a part of this permit.

The second existing leachate collection system is for cell areas that do not have a bottom liner and leachate collection system. The system consists of two interconnected ponds, Ponds 1 and 2 (Ponds). The wastewater consists of stormwater and ground water within the drainage basin mixed with leachate from the closed, cells at the facility that do not have a bottom liner and leachate collection system. This wastewater is collected in Ponds 1 and 2. From Pond 2, the wastewater is pumped into the upper Wide Cypress Swamp Wetland Treatment System (WCSWTS) for treatment, percolation and temporary storage. WCSWTS discharges into the Landfill Outfall Ditch (LOD) on south property line, which is approximately 2.8 miles long, then into an off-site canal at the west

property line. This canal flows west and then north along the west side of The Greenway (Toll Road 417) for a total of approximately 12,500 feet, then into the Little Econolockhatee River. These water bodies are Class III fresh surface waters of the State.

This permit also authorizes design and construction of a new force main from Pond 2 to a new outfall D-003. Upon completion of the construction, the wastewater will cease to discharge from Outfall D-001 into the LOD at south property line except as authorized by this permit. Excess wastewater that cannot be stored/percolated into the WCSWTS will be pumped from Pond 2, via a proposed force main, and discharged through a new cascade outfall. The proposed new outfall will be located at the access road (Young Pine Road) southwest of the existing scale house. The wastewater will discharge through the Landfill Outfall Ditch (LOD) to the west property line, into an off-site canal. This canal flows west and then north along the west side of The Greenway (Toll Road 417) for a total of approximately 12,500 feet, then into the Little Econolockhatee River. These water bodies are Class III fresh surface waters of the State.

The existing lined landfill stormwater management system is designed to prevent the mixing of stormwater with leachate from landfill Cells 7B & 8. The system consists of two existing interconnected ponds, Ponds 3 and 4. Stormwater runoff from lined cell areas of the landfill is collected in Ponds 3 and 4. Pond 4 discharges into the LOD at south property line via Outfall D-002, then flows through the Landfill Outfall Ditch (LOD) to the west property line, into an off-site canal. This canal flows west and then north along the west side of The Greenway (Hwy. 417) for a total of approximately 12,500 feet, then into the Little Econolockhatee River.

#### WASTEWATER TREATMENT:

Existing Commingled Leachate and Ground Water System: The commingled wastewater is detained in Ponds 1 & 2. Wastewater pumped from detention Pond 2 and discharged via Outfall D-004 receives settling and percolation in WCSWTS. Overflow from WCSWTS then discharges under gravity into the Landfill Outfall Ditch (LOD) south property line through existing Outfall D-001. Overflow from WCSWTS to the Landfill Outfall Ditch (LOD) on south property line shall cease upon completion of the proposed new force main and a new Outfall D-003.

Existing Stormwater System: Accumulated stormwater, detained in Ponds 3 and 4, receives settling. Overflow from Pond 4 flows into the Landfill Outfall Ditch (LOD) on south property line via outfall D-002 by gravity.

Proposed Commingled Leachate and Ground Water System: The wastewater pumped from Pond 2 and discharged via the proposed new Outfall D-003 will not be further treated.

#### EFFLUENT DISPOSAL:

##### Ground Water Discharge:

The ground water discharge is a part of the solid waste permit issued by the Department's Solid Waste Program.

##### Surface Water Discharge:

The existing discharge from WCSWTS into the Landfill Outfall Ditch (LOD) on south property line is through existing structures designated as Outfall D-001. This discharge depends on the seasonal and climatic conditions. The monthly average daily flow is 3.7 MGD with maximum daily flow of 7.7 MGD. A historical long-term average daily flow is 1.78 MGD. WCSWTS discharges into the Landfill Outfall Ditch (LOD) on south property line, which is approximately 2.8 miles long, then into the Little Econolockhatee River via an off-site canal as described above. At the point of discharge, the Little Econolockhatee River is a Class III fresh surface water body of the State. Outfall D-001 is located at the Latitude and Longitude stated above.

The existing stormwater discharge from Pond 4 into Landfill Outfall Ditch (LOD) on south property line is through existing Outfall D-002. This discharge depends on the seasonal and climatic conditions. A long-term average daily flow of 0.178 MGD discharges into Landfill Outfall Ditch (LOD) on south property line, then flows

into the Little Econolockhatchee River, a Class III fresh surface water body of the State via an off-site canal as described above. Outfall D-002 is located at the Latitude and Longitude stated above.

Upon completion of the new force main and a new Outfall D-003, excess wastewater that cannot be stored and percolated into WCSWTS, will be pumped from Pond 2 through the transmission main and discharged through Outfall D-003. Overflow discharge in LOD on south property line shall not be allowed except for a 25 year/24 hour or higher storm event. The wastewater will discharge through the Landfill Outfall Ditch (LOD) on west property line, then into the Little Econolockhatchee River via an off-site canal as described above, a Class III fresh surface water body of the State.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Pages 4 of 19 through 19 of 19 of this permit.

PERMITTEE: ORANGE COUNTY UTILITIES DEPT.  
SOLID WASTE DIVISION  
ORLANDO, FLORIDA 32829  
ATTN.: JAMES BECKER, MANAGER

PERMIT NUMBER: 48-FL0037133  
ISSUANCE DATE: MARCH 15, 2001  
EXPIRATION DATE: MARCH 14, 2006  
FILE NUMBER: 48-FL0037133-001-IW7A

I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges:

1. During the interim period beginning on the effective date and lasting through the date new Outfall D-003 is constructed, the permittee is authorized to discharge wastewater from WCSWTS via the surface water disposal system D-001. Sampling shall be performed at the designated location EFF-01. Such discharge shall be limited and monitored by the permittee as specified in Consent Agreement OGC-00-0710.
2. During the period beginning with completion of construction of Outfall D-003 and lasting through the expiration date of this permit, the permittee is authorized to discharge wastewater from the surface water disposal system D-003. Sampling shall be performed at the designated location EFF-03 (see Specific Condition I.E.1.). Such discharge shall be limited and monitored by the permittee as specified below:

Parameters (units)	Discharge Limitations **			Monitoring Requirements		
	Monthly Avg.	Daily Max.	Other	Frequency	Sample Type	Sample Point
Flow (MGD)	3.7	7.7		Daily	Metered	EFF-03
CEOD <sub>5</sub> (mg/l)	Report	8.8		Weekly	Grab	EFF-03
Dissolved Oxygen (mg/l)	Report	Report	4.2 min	Weekly	In-situ	EFF-03
Total Nitrogen as N (mg/l)	Report	Report		Weekly	Grab	EFF-03
TKN as N (mg/l)	Report	Report		Weekly	Grab	EFF-03
Ammonia as N (mg/l)	Report	Report		Weekly	Grab	EFF-03
Un-Ionized Ammonia as NH <sub>3</sub> (mg/l)	< 0.02	< 0.02		Weekly	Calculate	EFF-03
Temperature (C°)	Report	Report		Weekly	In-situ	EFF-03
Turbidity (NTU) (See A.I.9)	Report	Report		Monthly	In-situ	SWA-01
Turbidity (NTU)	(2)	(2)		Monthly	In-situ	EFF-03
Specific Conductance (umhos)(Sec A.I.9)	Report	Report		Monthly	In-situ	SWA-01
Specific Conductance (umhos)	(3)	(3)		Monthly	In-situ	EFF-03
Total Chlorides (mg/l)	Report	Report		Monthly	Grab	EFF-03
Total Sulfates (mg/l)	Report	Report		Monthly	Grab	EFF-03
Total Suspended Solids (mg/l)	Report	Report		Monthly	Grab	EFF-03
Total Dissolved Solids (mg/l)	Report	Report		Monthly	Grab	EFF-03
Total Organic Carbon (mg/l)	Report	Report		Monthly	Grab	EFF-03
TRPH*** (mg/l)	5.0	5.0		Monthly	Grab	EFF-03
Oil and Grease (mg/l)	5.0	5.0		Monthly	Grab	EFF-03
Total Hardness as CaCO <sub>3</sub> (mg/l)	Report	Report		Monthly	Grab	EFF-03
Arsenic * (ug/l)	< 50	< 50		Quarterly	Grab	EFF-03
Cadmium* (ug/l)	(1)	(1)		Quarterly	Grab	EFF-03
Copper* (ug/l)	(1)	(1)		Quarterly	Grab	EFF-03
Chromium* (ug/l)	< 11	< 11		Quarterly	Grab	EFF-03
Iron* (mg/l)	< 1.0	< 1.0		Quarterly	Grab	EFF-03
Mercury* (ug/l)	< 0.012	< 0.012		Quarterly	Grab	EFF-03
Manganese* (ug/l)	Report	Report		Quarterly	Grab	EFF-03
Lead* (ug/l)	(1)	(1)		Quarterly	Grab	EFF-03
Selenium* (ug/l)	Report	Report		Quarterly	Grab	EFF-03
Silver* (ug/l)	< 0.07	< 0.07		Quarterly	Grab	EFF-03
Sodium (ug/l)	Report	Report		Quarterly	Grab	EFF-03
Zinc* (ug/l)	(1)	(1)		Quarterly	Grab	EFF-03
pH (SU)	See Specific Condition I.A.8					
Acute Toxicity	See Specific Condition I.D					

PERMITTEE: ORANGE COUNTY UTILITIES DEPT.  
SOLID WASTE DIVISION  
ORLANDO, FLORIDA 32829  
ATTN.: JAMES BECKER, MANAGER

PERMIT NUMBER: 48-FL0037133  
ISSUANCE DATE: MARCH 15, 2001  
EXPIRATION DATE: MARCH 14, 2006  
FILE NUMBER: 48-FL0037133-001-IW7A

3. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from the surface water disposal system D-002, accumulated stormwater. Sampling shall be performed at the designated location EFF-02 (see Specific Condition I.E.1). Such discharge shall be limited and monitored by the permittee as specified below.

Parameters (units)	Discharge Limitations **			Monitoring Requirements		
	Monthly Avg.	Daily Max.	Other	Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report		Daily	Calculated	EFF-02
CBOD <sub>5</sub> (mg/l)	Report	Report		Monthly	Grab	EFF-02
Dissolved Oxygen (mg/l)	Report	Report	Report Min.	Monthly	In situ	EFF-02
Total Chlorides (mg/l)	Report	Report		Monthly	Grab	EFF-02
Total Sulfates (mg/l)	Report	Report		Monthly	Grab	EFF-02
Total Suspended Solids (mg/l)	Report	Report		Monthly	Grab	EFF-02
Total Dissolved Solids (mg/l)	Report	Report		Monthly	Grab	EFF-02
Total Organic Carbon (mg/l)	Report	Report		Monthly	Grab	EFF-02
Turbidity NTU	Report	Report		Monthly	In-Situ	EFF-02
TRPH *** (mg/l)	Report	Report		Monthly	Grab	EFF-02
Oil and Grease (mg/l)	Report	Report		Monthly	Grab	EFF-02
Total Hardness as CaCO <sub>3</sub> (mg/l)	Report	Report		Semi Annually	Grab	EFF-02
Arsenic * (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Cadmium* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Copper * (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Chromium* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Iron* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Mercury* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Manganese* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Lead* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Selenium* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Silver* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Sodium (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
Zinc* (ug/l)	Report	Report		Semi Annually	Grab	EFF-02
pH (SU)	See Specific Condition I.A.8					

- (1) The criteria for these metals shall be calculated using the formulae  $Cu \leq e^{(0.8545[\ln H]-1.465)}$ ,  $Cd \leq e^{(0.7852[\ln H]-1.49)}$ ,  $Pb \leq e^{(1.273[\ln H]-4.705)}$ ,  $Zn \leq e^{(0.8473[\ln H]+0.7614)}$ , where H means the natural logarithm of the Total Hardness expressed in milligram/l of CaCO<sub>3</sub>. The reported value shall be equal to or less than the calculated value. For those parameters where the water quality limit is hardness based, the rule specifies a calculation in which lnH is the natural logarithm of the Total Hardness expressed as mg/l CaCO<sub>3</sub>. The hardness value resulting from the monitoring requirements above (Specific Condition I.A.1) shall be used. The equations can only be applied for Hardness in the range of 25 mg/l to 400 mg/l as CaCO<sub>3</sub>. If analysis of the effluent reveals a Total Hardness less than 25 mg/l CaCO<sub>3</sub>, use 25 mg/l for Total Hardness. If the Total Hardness is above 400 mg/l CaCO<sub>3</sub>, use 400 mg/l in the calculation (Rule 62-302.530 (24), F.A.C.). If the reported effluent value for the above referenced total recoverable metal exceeds the calculated values, it shall constitute a violation of the effluent limitation.
- (2) Less than or equal to 29 NTU above natural background conditions.
- (3) Shall not be increased more than 50% above background or to 1275 whichever is greater.

\* Total Recoverable

\*\* Daily Discharge – the “discharge of a pollutant” measured during a calendar day or any 24 hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the “daily discharge” is calculated as the total mass of the pollutants discharged over the day. For pollutants expressed in other units of measurements, e.g., concentration, “daily discharge” is calculated as the average measurement of the pollutant over the day.



PERMITTEE: ORANGE COUNTY UTILITIES DEPT.  
SOLID WASTE DIVISION  
ORLANDO, FLORIDA 32829  
ATTN.: JAMES BECKER, MANAGER

PERMIT NUMBER: 48-FL0037133  
ISSUANCE DATE: MARCH 15, 2001  
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FILE NUMBER: 48-FL0037133-001-TW7A

Average monthly discharge limitation – the highest allowable average of “daily discharges” over a calendar month, calculated as the sum of all “daily discharges” measured during a calendar month divided by the number of “daily discharges” measured during that month.

Maximum daily discharge limitation – the highest allowable daily discharge.

\*\*\* Total Recoverable Petroleum Hydrocarbons

4. The following sampling shall begin no later than 120 days after the construction of Outfall D-003 is completed and lasting through the expiration date of this permit. Sampling shall be performed at the designated locations SWU-1; SWU-2; SWI; SWD-1 and SWD-2 (see Specific Condition I.E.1).

Parameters (units)	Discharge Limitations **			Monitoring Requirements		
	Daily Min.	Daily Max.	Other	Frequency	Sample Type	Sample Point
Flow (MGD)		Report		Daily	Metered	SWI (a)
Flow (MGD)		Report		Quarterly	Calculated	SWU-1
CBOD <sub>5</sub> (mg/l)		Report		Quarterly	Grab	(b), (c)
Dissolved Oxygen (mg/l)	Report	Report		Quarterly	In-situ	(b), (c)
TKN as N (mg/l)	Report	Report		Quarterly	Grab	(b), (c)
Ammonia as N (mg/l)		Report		Quarterly	Grab	(b), (c)
Nitrite+Nitrate as N (mg/l)		Report		Quarterly	Grab	(b)
Specific Conductance (umhos)		Report		Quarterly	In-situ	(b), (c)
Chlorophyll a (mg/l)		Report		Quarterly	Grab	(b)
Temperature (C°)	Report	Report		Quarterly	In-situ	(b), (c)
pH (SU)	Report	Report		Quarterly	In-situ	(b), (c)

- a) Report daily flow from EFF-03 in Part I.A.2
- b) SWU-1; SWU-2; SWI; SWD-1; and SWD-2
- c) The permittee may want to coordinate sampling events for Part I.A.2 and Part I.A.4 to avoid duplicate sampling events for SWI and EFF-03. As part of the quarterly monitoring requirement, sampling at all the designated locations (SWU-1, SWU-2, SWI, SWD-1, SWD-2) shall occur on the same day. Analytical results at sampling point SWI may be used for Part I.A.2 (sampling point EFF-03) however, the results from this single sampling event shall be reported on separate DMRs for Part I.A.2 and Part I.A.4.
5. During the period beginning on the effective date and lasting through the expiration date, the permittee shall report all discharges from disposal system D-004. Sampling shall be performed at the designated location WMI-01 and WMI-02 (see Specific Condition I.E.1) to report all discharges pumped out of Pond 2. Such discharge shall be limited and monitored by the permittee as specified below:

Parameters (units)	Discharge Limitations **			Monitoring Requirements		
	Monthly Avg.	Daily Max.	Other	Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report		Daily	Metered	WIM-01
Flow (MGD)	Report	Report		Daily	Metered	WIM-02

6. There shall be no discharge of floating solids or visible foam in other than trace amounts.
7. The discharge shall not cause a visible sheen on the receiving water.
8. The pH shall not be less than 6.0 standard units, nor greater than 8.5 standard units. The pH shall not vary more than one unit above or below natural background of predominantly fresh waters, provided that the pH is

PERMITTEE: ORANGE COUNTY UTILITIES DEPT.  
SOLID WASTE DIVISION  
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not lowered to less than six units in predominantly fresh waters, or raised above 8.5 units. If natural background is less than six units, in predominantly fresh waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters. (fresh waters) The permittee shall grab sample the effluent at Sampling Locations monthly and report the results on the provided Discharge Monitoring Report (DMR) forms.

9. Unless specified elsewhere in the permit, samples taken in compliance with the monitoring requirements specified in Specific Condition I.A.2 through I.A.5 shall be taken at the nearest accessible point after final treatment but prior to the actual discharge with the receiving water.
10. The permittee shall not discharge to surface waters in concentrations which, alone or in combination with other substances or components of discharges (whether thermal or non-thermal), are carcinogenic, mutagenic, teratogenic or toxic to humans or acutely toxic to indigenous species of significance to the aquatic community within the surface waters affected by the discharge.
11. Background water quality shall be established by grab sample results to be taken at a point to be presented to the Department for approval. The location shall be representative of an unimpacted drainage system in the same or similar area to the facility. The point shall be identified to the Department for approval within 30 days of permit issuance. Once the location is approved, the samples shall be taken monthly beginning in May 01, 2001. This point is designated SWA-01.

B. Other Methods of Disposal or Recycling:

1. Ground water discharges shall be in accordance with the Solid Waste Permit issued by the Department's Solid Waste Program. It is not a part of this permit.

C. Other Limitations and Monitoring and Reporting Requirements:

1. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantification limits), which is titled "Florida Department of Environmental Protection Table as Required By Rule 62-4.246(4) Testing Methods for Discharges to Surface Water" dated June 21, 1996, is available from the Department on request. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
  - a) The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - b) The laboratory reported PQL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide a PQL, which is equal to or less than the applicable water quality criteria stated in 62-302 FAC; and

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- c) If the PQLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated PQL should be used.
  - d) Where the analytical results are below method detection or practical quantification limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. However, where necessary, the permittee may request approval for alternative methods or for alternative MDLs and PQLs for any approved analytical method, in accordance with the criteria of Rules 62-160.520 and 62-160.530, F.A.C.
2. Monitoring results obtained for each calendar month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR), Form 62-620.910(10), postmarked no later than the 28th day of the month following the completed calendar month. For example, data for January shall be submitted by February 28. Signed copies of the DMR shall be submitted to the address specified below:

Florida Department of Environmental Protection  
Wastewater Facilities Regulation Section  
2600 Blair Stone Road, Mail Station 3551  
Tallahassee, Florida 32399-2400

If no discharge occurs during the reporting period, the above sampling requirements of this permit do not apply. The DMR shall be submitted with a check in the box indicating "No Discharge". If, during the term period of this permit, the facility ceases to discharge, the Department shall be notified immediately upon cessation of discharge. Such notification shall be in writing.

3. Unless specified otherwise in this permit, all other reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to, as appropriate, the Central District Office of the Department at the address specified below:

Florida Department of Environmental Protection  
Central District Office  
Wastewater Compliance/Enforcement Program  
3319 Maguire Blvd., Suite 232  
Orlando, FL 32803

4. Grab samples shall be collected during periods of minimal treatment plant pollutant removal efficiencies or maximum hydraulic and/or organic loading.
5. The permittee shall provide safe access points for obtaining representative samples, which are required by this permit.
6. The permittee shall ensure that all laboratory analytical data submitted to the department as required by this permit is from a laboratory which has a currently valid and Department-approved Comprehensive Quality Assurance Plan (ComQAP) [or a ComQAP pending approval] for all parameters being reported as required by Chapter 62-160, Florida Administrative Code.
7. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.

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8. Any bypass of the treatment facility, which is not included in the monitoring specified in LA, is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reasonable data. All monitoring results shall be reported on the appropriate DMR.

D. Toxicity Monitoring Requirements:

Whole effluent toxicity testing shall be conducted at Outfall D-001 as required under the Consent Agreement OGC-00-0710 until such time as the construction and completion of the new structure D-003 occurs. Upon cessation of discharge at D-001 and initiation of discharge at D-003, the permittee shall initiate the series of tests described below at D-003. Unless otherwise directed by the Department, no further toxicity testing of D-001 shall be required. All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F, or the most current edition. The control water and dilution water used will be moderately hard water as described in EPA/600/4-90/027F, Table 6, or the most current edition. A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted concurrently or no greater than 30 days before the date of the "routine" test, with each species used in the toxicity tests. The results of all toxicity tests shall be submitted with the discharge monitoring report (DMR). Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

- a. 1. The permittee shall conduct 96-hour acute static renewal toxicity tests using the daphnid, *Ceriodaphnia dubia*, and the bannerfin shiner, *Cyprinella leedsi*. All tests will be conducted on four separate grab samples collected at evenly spaced (6-hr) intervals over a 24-hour period and used in four separate tests in order to catch any peaks of toxicity and to account for daily variations in effluent quality.
2. If control mortality exceeds 10% for either species in any test, the test for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species. If, in any separate grab sample test, 100% mortality occurs prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity.
- b. 1. The toxicity tests specified above shall be conducted once every two months. These tests are referred to as "routine" tests. Upon the completion of six valid tests, which demonstrate that no unacceptable toxicity (as defined in d.1.) has been identified, the permittee may petition the Department for a reduction in monitoring frequency.
2. Results from "routine" tests shall be reported according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition), and shall be submitted to:

Florida Department of Environmental Protection  
Central District Office  
3319 Maguire Boulevard Suite 232  
Orlando, FL, Florida 32803-3767

- c. 1. All "routine" tests shall be conducted using a control (0% effluent) and a test concentration of 100% final effluent.
2. Mortalities of greater than 50% in a 100% effluent in any "routine" sample or an LC50 of less than 100% effluent in any additional definitive test will constitute a violation of these permit conditions, and Rule 62-302.200(1), Rule 62-302.500(1)(a)4 and Rule 62-4.244(3)(a), F. A. C.
- d. 1. If unacceptable acute toxicity (greater than 20% mortality of either test species in any grab sample test) is found in a "routine" test, the permittee shall conduct three additional tests on each species indicating unacceptable toxicity. The first additional test will include four grab samples taken as described in a.1. and



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run as four separate definitive analyses. The second and third additional definitive tests will be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the "routine" test. Results for each additional test will include the determination of LC50 values with 95% confidence limits.

2. The first additional test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5% and 6.25% effluent. The dilution series may be modified in the second and third test to more accurately identify the toxicity, such that at least two dilutions above and two dilutions below the target toxicity and a control (0% effluent) are run.
3. For each additional test, the sample collection requirements and the test acceptability criteria specified in section a. above must be met for the test to be considered valid. The first test shall begin within two weeks of the end of the "routine" tests, and shall be conducted weekly thereafter until three additional, valid tests are completed. The additional tests will be used to determine if the toxicity found in the "routine" test is still present.
4. Results from additional tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027F, Section 12, or the most current edition and submitted within 45 days of completion of the third additional, valid test. Upon completion of the third additional test, the permittee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the unacceptable acute toxicity.

E. Sampling location identification:

1. Effluent sampling locations listed in Permit Conditions I.A.1, through I.A.5 are as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFF-01	This sampling point is associated with Outfall D-001. This sample may be taken at either of the two structures where the WCSWTS discharges to the LOD at south property line.
EFF-02	The sampling point is located at Outfall D-002 at Pond 4 at the LOD at south property line.
EFF-03	This is a proposed new sampling point. It will be at Outfall D-003 discharging to LOD on west property line near the scalehouse at landfill entrance (at Young Pine Road).
WIM-01	This sampling point is associated with D-004 at the Pond 2 pumping station discharging to WCSWTS.
WIM-02	This sampling point is associated with D-004 at the Pond 2 pumping station discharging through the new force main at proposed Outfall D-003.
SWA-01	Ambient (background) surface water sampling point- Location to be determined.
SWU-1	A sampling location in LOD at south property line, located 100 feet upstream of exiting sampling point LEC-1.
SWU-2	A sampling location in the LOD parallel to west property boundary, located 100 feet upstream of proposed outfall D-003.
SWI	This sampling point is same as EFF-03 associated with Outfall D-003.
SWD-1	A sampling location in West Canal. It is same as former sampling location LEX.
SWD-2	A sampling location in West Canal just west of Green Way near toll plaza.

II. Industrial Sludge Management Requirements: NA

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III. Ground Water Discharges: Ground water discharges associated with this facility are not a part of this permit. It is part of the Department issued Solid Waste Permit.

IV. Other Land Application Requirements: NA

V. Operation and Maintenance Requirements

A. Operation of Treatment and Disposal Facilities:

1. The permittee shall ensure that the operation of this facility is as described in the application and supporting documents.
2. The operation of the pollution control facilities described in this permit shall be under the full time supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control.

B. Record Keeping Requirements:

1. The permittee shall maintain the following records on the site of the permitted facility and make them available for inspection:
  - a. Records of all compliance monitoring information; including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory; for at least three years from the date the sample or measurement was taken.
  - b. Copies of all reports or documents, other than those listed in Specific Conditions V.B.1.a and V.B.1.f, required for at least three years from the date the report was prepared, unless otherwise specified by Department rule.
  - c. Records of all data, including reports and documents used to complete the application for the permit for at least three years from the date the application was filed, unless otherwise specified by Department rule.
  - d. A copy of the current permit shall be retained for the life of the permit.
  - e. A copy of any required record drawings.
  - f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule.

VI. Compliance Schedules and Self-imposed Improvement Schedules:

A. The permittee shall achieve compliance with the conditions of this permit in accordance with the following schedule:

1. Complete design of the proposed new force main from Pond 2 to proposed new Outfall D-003. Submit proposed modification for the Department review and approval in accordance with Consent Agreement OGC-00-0710. Upon written authorization, complete construction in accordance with the Consent Agreement.

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2. Clean the landfill outfall canal at and near the proposed new Outfall D-003 in accordance with the Consent Agreement OGC-00-0710. Submit a schedule for routine maintenance program to control excessive vegetation growth and sediment deposition.
3. Submit location of Ambient Surface Water sampling point (SWA-01) location for department approval within 30 days of permit issuance.

- B. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by an identified date, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

#### VII. Other Specific Conditions

A. Specific Conditions Applicable to all permits:

1. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Central District Office, are made a part hereof.
2. If significant historical or archaeological artifacts are discovered at any time within the project site, the permittee shall immediately notify the Central District Office and the Department of State, Division of Library & Information Services, Bureau of Archives & Record Management, R.A. Gray Building, 500 S. Bronough Street, Tallahassee, FL 32399-0250.
3. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
4. This permit satisfies Industrial Wastewater Program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.

B. Specific Conditions Related to Construction:

1. Prior to placing the newly constructed facilities into operation or any individual unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Central District Office Form 62-620.910(12), the Notification of Completion of Construction for Wastewater Facilities.
2. Within 6 months after a facility is placed in operation, the permittee shall provide written certification to the Central District Office on Form 62-620.910(13), that record drawings pursuant to Chapter 62-600 F.A.C. are available at the location specified on the Form.

C. Duty to Reapply:

1. The permittee shall submit an application to renew this permit at least 180 days before the expiration date of this permit.



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2. The permittee shall apply on the appropriate form listed in Rule 62-620.910, F.A.C., and in the manner established in Rules 62-620.400 through 62-620.460, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.
3. An application filed in accordance with subsections 1. and 2. of this part shall be considered timely and sufficient. When an application for renewal of a permit is timely and sufficient, the existing permit shall not expire until the Department has taken final action on the application for renewal or until the last day for seeking judicial review of the agency order or a later date fixed by order of the reviewing court.
4. The late submittal of a renewal application shall be considered timely and sufficient for the purpose of extending the effectiveness of the expiring permit only if it is submitted and made complete before the expiration date.

D. Specific Conditions Related to Best Management Practices Condition

1. BMP Plan: The permittee may develop and implement a best Management Practices (BMP) plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff, in-plant transfer, process and material handling areas; loading and unloading operations; and sludge and waste disposal areas, to the waters of the State through plant site runoff, spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

E. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities: NA

F. Specific Conditions Associated with Future TMDL Study Results:

1. The limits for Total Nitrogen (TN), Total Phosphorus (TP) and other Final Limits shall remain in effect until the development and implementation of Pollutant Load Reduction Goals (PLRGs) and/or Total Maximum Daily Loads (TMDLs) for nutrients for the are completed by the St. Johns River Water Management District and the Department. At such time, the Department may require that the effluent limits contained in this permit be revised. [62-302.500, 12-26-96]

G. Reporting Noncompliance:

The permittee shall report to the Department any noncompliance, which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

1. The following shall be included as information, which must be reported within 24 hours under this condition:
  - a. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
  - b. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
  - c. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and

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- d. Any unauthorized discharge to surface or ground waters not otherwise reported in accordance with b. below.
2. The permittee shall report all unauthorized releases or spills of untreated or treated wastewater in excess of 1,000 gallons per incident, or where public health or the environment may be endangered, to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
  - a. Name, address, and telephone number of person reporting.
  - b. Name, address, and telephone number of permittee or responsible person for the discharge.
  - c. Date and time of the discharge and status of discharge (ongoing or ceased).
  - d. Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater).
  - e. Estimated amount of the discharge.
  - f. Location or address of the discharge.
  - g. Source and cause of the discharge.
  - h. Whether the discharge was contained on site, and cleanup actions taken to date.
  - i. Description of area affected by the discharge, including name of water body affected, if any.
  - j. Other persons or agencies contacted.
3. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.

#### VIII. General Conditions:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, F.S. Any permit noncompliance constitutes a violation of Chapter 403, F.S. and is grounds for enforcement action, permit termination, permit revocation and reissuance or permit revision. [62-620.610]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2)]
3. As provided in Subsection 403.087(6), 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 authorize any infringement of Federal, State or Local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
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. [62-620.610(4)]

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5. This permit does not relieve the permittee from liability and penalties 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; 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. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6)]
7. The permittee shall at all times 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. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
8. This permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter the permittee's premises where a regulated facility, system or activity is located or conducted or where records shall be kept under the conditions of this permit.
  - b. Have access to and copy any records that shall be kept under the conditions of this permit.
  - c. Inspect the facilities, equipment, practices or operations regulated or required under this permit.
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules. [62-620.610(9)]
10. 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 as such use is proscribed by Section 403.111, F.S. or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10)]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing or terminating this permit or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11)]

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12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, 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. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12)]
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13)]
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14)]
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15)]
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.330, F.A.C. for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16)]
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages, which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance.
  - b. The period of the anticipated noncompliance, including dates and times.
  - c. Steps being taken to prevent future occurrence of the noncompliance. [62-620.610(17)]
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, F.A.C. and Chapters 62-160 and 62-601, F.A.C. and 40 CFR 136, as appropriate.
  - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).
  - b. If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures; the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations, which require averaging of measurements, shall use an arithmetic mean, unless otherwise specified in this permit.

PERMITTEE: ORANGE COUNTY UTILITIES DEPT.  
SOLID WASTE DIVISION  
ORLANDO, FLORIDA 32829  
ATTN.: JAMES BECKER, MANAGER

PERMIT NUMBER: 48-FL0037133  
ISSUANCE DATE: MARCH 15, 2001  
EXPIRATION DATE: MARCH 14, 2006  
FILE NUMBER: 48-FL0037133-001-IW7A

- d. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health under Chapter 64E-1, F.A.C. to perform the test. In domestic wastewater facilities, on site tests for dissolved oxygen, pH and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
  - e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization that has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. This CompQAP shall be approved for collection of samples from the required matrices and for the required tests. [62-620.610(18)]
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]
20. The permittee shall report to the Department any noncompliance, which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time and, if the noncompliance has not been corrected, the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance.
- a. The following shall be included as information, which must be reported within 24 hours under this condition:
    - (1) Any unanticipated bypass, which causes any, reclaimed water or the effluent to exceed any permit limitation or results in an unpermitted discharge.
    - (2) Any upset, which causes any, reclaimed water or the effluent to exceed any limitation in the permit.
    - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice.
    - (4) Any unauthorized discharge to surface or ground waters of the State.
  - b. If the oral report has been received within 24 hours, the noncompliance has been corrected and the noncompliance did not endanger health or the environment, the Department shall waive the written report. [62-620.610(20)]
21. The permittee shall report all instances of noncompliance not reported under Conditions VIII.18 and 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition VIII.20 of this permit. [62-620.610(21)]
22. Bypass Provisions:
- a. Bypass is prohibited and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
    - (1) Bypass was unavoidable to prevent loss of life, personal injury or severe property damage.

PERMITTEE: ORANGE COUNTY UTILITIES DEPT.  
SOLID WASTE DIVISION  
ORLANDO, FLORIDA 32829  
ATTN.: JAMES BECKER, MANAGER

PERMIT NUMBER: 48-FL0037133  
ISSUANCE DATE: MARCH 15, 2001  
EXPIRATION DATE: MARCH 14, 2006  
FILE NUMBER: 48-FL0037133-001-IW7A

- (2) There were no feasible alternatives to the bypass, such as, the use of auxiliary treatment facilities, retention of untreated wastes or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass, which occurred during normal periods of equipment downtime or preventive maintenance.
  - (3) The permittee submitted notices as required under Condition VIII.22.b of this permit.
- b. If the permittee knows in advance of the need for a bypass, he shall submit prior notice to the Department, if possible, at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Condition VIII.20 of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue and the steps taken or planned to reduce, eliminate and prevent recurrence of the bypass.
  - c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Condition VIII.22.a(1) through (3) of this permit.
  - d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of Condition VIII.22.a through c of this permit. [62-620.610(22)]

23. Upset Provisions:

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs or other relevant evidence, that:
  - (1) An upset occurred and the permittee can identify the cause(s) of the upset.
  - (2) The permitted facility was at the time being properly operated.
  - (3) The permittee submitted notice of the upset as required in Condition VIII.20 of this permit.
  - (4) The permittee complied with any remedial measures required under Condition VIII.5 of this permit.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

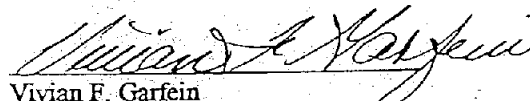
PERMITTEE: ORANGE COUNTY UTILITIES DEPT.  
SOLID WASTE DIVISION  
ORLANDO, FLORIDA 32829  
ATTN.: JAMES BECKER, MANAGER

PERMIT NUMBER: 48-FL0037133  
ISSUANCE DATE: MARCH 15, 2001  
EXPIRATION DATE: MARCH 14, 2006  
FILE NUMBER: 48-FL0037133-001-IW7A

- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review. [62-620.610(23)]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Vivian F. Garfein  
Director of District Management

Date: March 15, 2001

VFG/ak

# DEPARTMENT OF ENVIRONMENTAL PROTECTION ON DISCHARGE MONITORING REPORT - PART A

WH. COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater  
2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 3239-2400

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

To:

LIMIT: Final

REPORT: Monthly

CLASS SIZE: Minor

GROUP: IW

File No.: 48-FL0037133-001-IW7A

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department  
MAILING ADDRESS 5901 Young Pine Road  
Orlando, FL 32829

Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829

COUNTY: Orange

DISCHARGE POINT NUMBER: D-002

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.(1)	Avg (2)	Max(3)			
Flow									
Sample Measurement									
Permit Requirement	Report	Report	MGD	NA	NA	NA			
CBOD5								Daily	Measured
Sample Measurement	NA	NA	NA	NA					
Permit Requirement					Report	Report		Monthly	Grab
PARM No. 80082 1									
Mon. Site No. EFF-02									
Total Suspended Solids (TSS)									
Sample Measurement	NA	NA	NA	NA					
Permit Requirement					Report	Report		Monthly	Grab
PARM No. 00530 1									
Mon. Site No. EFF-02									
Dissolved Oxygen									
Sample Measurement	NA	NA	NA						
Permit Requirement					Report	Report		Monthly	Grab
PARM No. 00300 1									
Mon. Site No. EFF-02									
Turbidity									
Sample Measurement	NA	NA	NA	NA					
Permit Requirement					Report	Report		Monthly	Grab
PARM No. 00070 1									
Mon. Site No. EFF-02									
(1) Daily Minimum, (2) Monthly Average, (3) Daily Maximum									

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print) Signature of Principal Executive Officer Or Authorized Agent Telephone No. (incl. area code) Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

# DEPARTMENT OF ENVIRONMENTAL PROTECTION NONDISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection  
2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 32399-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department

MAILING ADDRESS: 5901 Young Pine Road  
Orlando, FL 32829

Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829

COUNTY: Orange

To:  
REPORT: Semi Annually  
GROUP: IW

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

LIMIT: Final

CLASS SIZE: Minor

File No.: 48-FL0037133-001-IW7A

DISCHARGE POINT NUMBER: D-002

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration				No. Ex	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.	Units			
Total Recoverable Arsenic										
PARM No. 00978 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									
Total Recoverable Cadmium										
PARM No. 01113 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									
Total Recoverable Chromium										
PARM No. 01118 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									
Total Recoverable Copper										
PARM No. 01119 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									
Total Recoverable Iron										
PARM No. 00980 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									
Total Recoverable Manganese										
PARM No. 11123 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									
Total Recoverable Lead										
PARM No. 01114 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									
Total Recoverable Silver										
PARM No. 01079 1	Sample Measurement	NA	NA	NA	Report	Report	ug/l		Semi Annually	Grab
Mon. Site No. EFF-02	Permit Requirement									

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Part A continued

Facility Name: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

File No.: 48-FL0037133-001-IW7A

Discharge Point # D-002

Parameter	Quantity or Loading				Quality or Concentration				No. Ex	Frequency of Analysis	Sample Type
	Avg	Max	Units	Min	Avg	Max	Units	Min			
Total Sodium											
Sample Measurement	NA	NA	NA	NA							
Permit Requirement					Report	Report	mg/l			Semi-Annually	Grab
PARM No. 00929 1											
Mon. Site No. EFF-02											
Total Recoverable Zinc											
Sample Measurement	NA	NA	NA	NA							
Permit Requirement					Report	Report	ug/l			Semi-Annually	Grab
PARM No. 01094 1											
Mon. Site No. EFF-02											
Total Recoverable Mercury											
Sample Measurement	NA	NA	NA	NA							
Permit Requirement					Report	Report	ug/l			Semi-Annually	Grab
PARM No. 71901 1											
Mon. Site No. EFF-02											
Total Recoverable Selenium											
Sample Measurement	NA	NA	NA	NA							
Permit Requirement					Report	Report	ug/l			Semi-Annually	Grab
PARM No. 00981 1											
Mon. Site No. EFF-02											
Total Hardness as CaCO <sub>3</sub>											
Sample Measurement	NA	NA	NA	NA							
Permit Requirement					Report	Report	mg/l			Semi-Annually	Grab
PARM No. 00900 1											
Mon. Site No. EFF-02											
Sample Measurement											
Permit Requirement											
Sample Measurement											
Permit Requirement											
Sample Measurement											
Permit Requirement											
Sample Measurement											
Permit Requirement											
Sample Measurement											
Permit Requirement											
Sample Measurement											
Permit Requirement											

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

## DAILY SAMPLE RESULTS - PART B

Permit Number: 48-FL0037133 Orange County Landfill NPDES  
Discharge Point No. D-002

Three-month Average Daily Flow: NA

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

(TMADF/Permitted Capacity)x100: NA

[illegible]

PLANT STAFFING: NA

Day Shift Operator      Class:      Certificate No:      Name:

Evening Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Night Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Lead Operator: \_\_\_\_\_ Class: \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse: NA

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather discharge: NA

Attach additional sheets if necessary to list all certified operators.

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater  
2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 3239-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department  
MAILING ADDRESS: 5901 Young Pine Road  
Orlando, FL 32829  
Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829  
COUNTY: Orange

PERMIT NUMBER: 48-FL0037133  
MONITORING PERIOD-From:  
LIMIT: Final  
CLASS SIZE: Minor  
File No.: 48-FL0037133-001-IW7A

To:  
REPORT: Monthly  
GROUP: IW

DISCHARGE POINT NUMBER: D-003  
PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read Instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex	Frequency of Analysis	Sample Type
	Avg	Max	Units	Min(1)	Avg(2)	Max(3)			
Flow									
PARM No. 50050 1 Mon. Site No. EFF-03	Sample Measurement			NA	NA	NA			
CBOD5	Permit Requirement	7.7	MGD					Daily	Metred
PARM No. 80082 1 Mon. Site No. EFF-03	Sample Measurement	NA	NA	NA					
Total Suspended Solids (TSS)	Permit Requirement				Report	mg/l		Weekly	Grab
PARM No. 00330 1 Mon. Site No. EFF-03	Sample Measurement	NA	NA	NA					
Dissolved Oxygen	Permit Requirement				Report	mg/l		Monthly	Grab
PARM No. 00300 1 Mon. Site No. EFF-03	Sample Measurement	NA	NA	NA					
Total Nitrogen as N	Permit Requirement			4.2	Report	mg/l		Weekly	In-situ
PARM No. 00600 1 Mon. Site No. EFF-03	Sample Measurement	NA	NA	NA					
TKN as N	Permit Requirement				Report	mg/l		Weekly	Grab
PARM No. 00625 1 Mon. Site No. EFF-03	Sample Measurement	NA	NA	NA					
	Permit Requirement				Report	mg/l		Weekly	Grab

(1) Daily Minimum, (2) Monthly Average, (3) Daily Maximum

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print) Signature of Principal Executive Officer Or Authorized Agent Telephone No. (incl. area code) Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Please read Instructions before completing this form

Parameter	Quantity or Loading		Quality or Concentration				No. Ex	Frequency of Analysis	Sample Type
	Avg	Max	Units	Min	Avg	Max			
Ammonia as N									
PARM No. 00610 1	Sample Measurement	NA	NA	NA	Report	Report	mg/l		
Mon. Site No. EFF-03	Permit Requirement							Weekly	Grab
Un-ionized Ammonia as NH <sub>3</sub>									
PARM No. 00619 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-03	Permit Requirement				≤0.02	≤0.02	mg/l	Weekly	Calculate
Temperature									
PARM No. 00010 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-03	Permit Requirement				Report	Report	°C	Weekly	In-situ
Turbidity (Line 1)									
PARM No. 00070 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-03	Permit Requirement				Report	Report	NTU	Monthly	Grab
Turbidity (Line 2)									
PARM No. 00070 5	Sample Measurement	NA	NA	NA					
Mon. Site No. SWA-01	Permit Requirement				Report	Report	NTU	Monthly	Grab
Turbidity (Line 1-Line 2))									
PARM No. 00070 P	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-03	Permit Requirement				Report	Report	NTU	Monthly	Calculate
Specific Conductance (Line 1)									
PARM No. 00095 1	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-03	Permit Requirement				Report	Report	µmhos/cm	Monthly	In-situ
Specific Conductance (Line 2)									
PARM No. 00095 5	Sample Measurement	NA	NA	NA					
Mon. Site No. SWA-01	Permit Requirement				Report	Report	µmhos/cm	Monthly	In-situ
Specific Conductance Line 3									
PARM No. 00095 P	Sample Measurement	NA	NA	NA					
Mon. Site No. EFF-03	Permit Requirement				Report	Report	µmhos/cm	Monthly	Calculate

Line 3 is 50 % above the background sample (Line 2) or 1275 µmhos/cm, whichever is greater.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Parameter		Quantity or Loading			Quality or Concentration			No. Ex	Frequency of Analysis	Sample Type
		Avg	Max	Units	Min	Avg	Max			
Specific Conductance (Line 1 - Line 3)										
Sample Measurement		NA	NA	NA	NA	NA				
Permit Requirement										
Chloride Total										
Sample Measurement		NA	NA	NA	NA				Monthly	Calculate
Permit Requirement										
PARM No. 00940 1										
Mon. Site No. EFF-03										
Sulfates Total										
Sample Measurement		NA	NA	NA	NA	Report	Report		Monthly	Grab
Permit Requirement										
PARM No. 00945 1										
Mon. Site No. EFF-03										
Total Dissolved Solids (TDS)										
Sample Measurement		NA	NA	NA	NA					
Permit Requirement										
PARM No. 70296 1										
Mon. Site No. EFF-03										
Total Organic Carbon (TOC)										
Sample Measurement		NA	NA	NA	NA					
Permit Requirement										
PARM No. 00680 1										
Mon. Site No. EFF-03										
TRPH (Total Recoverable Petroleum Hydrocarbon)										
Sample Measurement		NA	NA	NA	NA					
Permit Requirement										
PARM No. 31666 1										
Mon. Site No. EFF-03										
Oil and Grease										
Sample Measurement		NA	NA	NA	NA					
Permit Requirement										
PARM No. 00556 1										
Mon. Site No. EFF-03										
Total Hardness as CaCO <sub>3</sub> (H)										
Sample Measurement		NA	NA	NA	NA					
Permit Requirement										
PARM No. 00900 1										
Mon. Site No. EFF-03										
pH										
Sample Measurement		NA	NA	NA	NA	NA				
Permit Requirement										
PARM No. 00400 1										
Mon. Site No. EFF-03										
Sample Measurement										
Permit Requirement										
PARM No. 1										
Mon. Site No.										

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

WI COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wa.  
 2600 Fairstone Rd., Mail Station 3551 Tallahassee, FL 3239-2400  
 PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department  
 MAILING ADDRESS: 5901 Young Pine Road  
 Orlando, FL 32829  
 Attn.: James Becker, Manager  
 FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal  
 LOCATION: 5901 Young Pine Road, Orlando, FL 32829  
 COUNTY: Orange

PERMIT NUMBER: 48-FL0037133  
 MONITORING PERIOD-From:  
 LIMIT: Final  
 CLASS SIZE: Minor  
 File No.: 48-FL0037133-001-IW7A

To:  
 REPORT: Quarterly  
 GROUP: IW

DISCHARGE POINT NUMBER: D-003  
 PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading				Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.	Units				
Total Recoverable Arsenic	Sample Measurement	NA	NA	NA							
PARM No. 00978 1 Mon. Site No. EFF-03	Permit Requirement				≤50	≤50	ug/l			Quarterly	Grab
Total Recoverable Cadmium (Line 1)	Sample Measurement	NA	NA	NA							
PARM No. 01113 1 Mon. Site No. EFF-03	Permit Requirement				Report	Report	ug/l			Quarterly	Grab
Total Recoverable Cadmium – e <sup>(0.154(1000-1.46))</sup> (Line 2)	Sample Measurement	NA	NA	NA							
PARM No. 01113 P Mon. Site No. EFF-03	Permit Requirement				Report	Report	ug/l			Quarterly	Calculate
Total Recoverable Cadmium (Line 1– Line 2)	Sample Measurement	NA	NA	NA							
PARM No. 01113 Q Mon. Site No. EFF-03	Permit Requirement				≤0	≤0	ug/l			Quarterly	Calculate
Total Recoverable Chromium	Sample Measurement	NA	NA	NA							
PARM No. 01118 1 Mon. Site No. EFF-03	Permit Requirement				≤11	≤11	ug/l			Quarterly	Grab
Total Recoverable Copper (Line 1)	Sample Measurement	NA	NA	NA							
PARM No. 01119 1 Mon. Site No. EFF-03	Permit Requirement				Report	Report	ug/l			Quarterly	Grab
Total Recoverable Copper e <sup>(0.154(1000-1.46))</sup> (Line 2)	Sample Measurement	NA	NA	NA							
PARM No. 01119 P Mon. Site No. EFF-03	Permit Requirement				Report	Report	ug/l			Quarterly	Calculate
Total Recoverable Copper (Line 1-Line 2)	Sample Measurement	NA	NA	NA							
PARM No. 01119 Q Mon. Site No. EFF-03	Permit Requirement				≤0	≤0	ug/l			Quarterly	Calculate

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



Part A continued Facility Name: Orange County Class I & III Landfill, Stormwater/Leachate Disposal  
 File No.: 48-FL0037133-001-JW7A Discharge Point # D-003

Parameter		Quantity or Loading				Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min.	Avg.	Max.	Units				
Total Recoverable Iron		NA	NA	NA	NA	≤10	≤100	ug/l			Quarterly	Grab
PARM No. 00980 I	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement											
Total Recoverable Manganese		NA	NA	NA	NA							
PARM No. 11123 I	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement					Report	Report	ug/l			Quarterly	Grab
Total Recoverable Lead (Line 1)		NA	NA	NA	NA							
PARM No. 01114 I	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement					Report	Report	ug/l			Quarterly	Grab
Total Recoverable Lead c <sub>0.213(0.047-0.769)</sub> (Line 2)		NA	NA	NA	NA							
PARM No. 01114 P	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement					Report	Report	ug/l			Quarterly	Calculate
Total Recoverable Lead (Line 1-Line2)		NA	NA	NA	NA							
PARM No. 01114 Q	Sample Measurement					≤0	≤0	ug/l			Quarterly	Calculate
Mon. Site No. EFF-03	Permit Requirement											
Total Recoverable Silver		NA	NA	NA	NA							
PARM No. 01079 I	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement					≤0.07	≤0.07	ug/l			Quarterly	Grab
Total Sodium		NA	NA	NA	NA							
PARM No. 00929 I	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement					Report	Report	ug/l			Quarterly	Grab
Total Recoverable Zinc (Line 1)		NA	NA	NA	NA							
PARM No. 01094 I	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement					Report	Report	ug/l			Quarterly	Grab
Total Recoverable Zinc c <sub>0.047(0.017-0.161)</sub> (Line 2)		NA	NA	NA	NA							
PARM No. 01094 P	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement					Report	Report	ug/l			Quarterly	Calculate
Total Recoverable Zinc (Line 1-Line 2))		NA	NA	NA	NA	≤0	≤0	ug/l			Quarterly	Calculate
PARM No. 01094 Q	Sample Measurement											
Mon. Site No. EFF-03	Permit Requirement											

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

[illegible]

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

## DAILY SAMPLE RESULTS - PART B

Permit Number: 48-FL0037133 Orange County Landfill NPDES  
Discharge Point D-003

Three-month Average Daily Flow: NA

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

(TMADF/Permitted Capacity)x100: NA

[illegible]

PLANT STAFFING: NA

Day Shift Operator      Class:      Certificate No:      Name:

Evening Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Night Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Lead Operator \_\_\_\_\_ Class \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse: NA.

Limited Wet Weather Discharge Activated: Yes No: Not Applicable: If yes, cumulative days of wet weather discharge: NA

\*Attach additional sheets if necessary to list all certified operators

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater

2600 Blairstone Rd., Mail Station 3551  
Tallahassee, FL 3239-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department

MAILING ADDRESS: 5901 Young Pine Road

Orlando, FL 32829

Attn: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829

COUNTY: Orange

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

LIMIT: Final

CLASS SIZE: Minor

File No: 48-FL0037133-001-IW7A

To:

REPORT: Toxicity

GROUP: IW

DISCHARGE POINT NUMBER: D-003

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 96-Hour Acute STATRE	Sample						
Ceriodaphnia dubia	Measurement						
Parameter No. TAN3B P	Permit Requirement						
Mon. Site No. EFF-01			100%* (Min)	%		Bi-Monthly	Grab
LC50 96-Hour Acute STATRE	Sample						
Ceriodaphnia dubia	Measurement						
Parameter No. TAN3B Q	Permit Requirement						
Mon. Site No. EFF-01			100%* (Min)	%		As Required	Grab
LC50 96-Hour Acute STATRE	Sample						
Cyprinella leedsii	Measurement						
Parameter No. TAN6H P	Permit Requirement						
Mon. Site No. EFF-01			100%* (Min)	%		Bi-Monthly	Grab
LC50 96-Hour Acute STATRE	Sample						
Cyprinella leedsii	Measurement						
Parameter No. TAN6H Q	Permit Requirement						
Mon. Site No. EFF-01			100%* (Min)	%		As Required	Grab
	Sample						
	Measurement						
	Permit Requirement						
	Sample						
	Measurement						
	Permit Requirement						

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

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE NO DATE (YY/MM/DD)

P = ROUTINE TESTS, Q = ADDITIONAL TESTS. Enter NODI-9 if monitoring is not required this month.

\*Endpoint to be determined, may be 100%, will be developed under the Consent Order and may be revised.

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A-8

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater

2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 3239-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department

MAILING ADDRESS: 5901 Young Pine Road

Orlando, FL 32829

Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829

COUNTY: Orange

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

LIMIT: Final

CLASS SIZE: Minor

File No.: 48-FL0037133-001-IW7A

To:

REPORT: Monthly

GROUP: IW

DISCHARGE POINT NUMBER: D-004

PLANT SIZE/TREATMENT TYPE: NA

No Discharge. ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg	Max	Units	Min(1)	Avg(2)	Max(3)			
Flow									
Sample Measurement									
Permit Requirement	Report	Report	MGD	NA	NA	NA		Daily	Metered
Flow									
Sample Measurement									
Permit Requirement	Report	Report	MGD					Daily	Metered
Flow									
Sample Measurement									
Permit Requirement									
Flow									
Sample Measurement									
Permit Requirement									
Flow									
Sample Measurement									
Permit Requirement									

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

Name/Title of Principal/Executive Officer or Authorized Agent (Type or Print)	Signature of Principal/Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

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A-1

Permit Number: 48-FL0037133 Orange County Landfill NPDES  
Discharge Point D-004

(TMADF/Permitted Capacity)x100: NA

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

PLANT STAFFING: NA

Day Shift Operator	Class: _____	Certificate No: _____	Name: _____
Evening Shift Operator	Class: _____	Certificate No: _____	Name: _____
Night Shift Operator	Class: _____	Certificate No: _____	Name: _____
Lead Operator	Class: _____	Certificate No: _____	Name: _____

Type of Effluent Disposal or Reclaimed Water Reuse:	NA	NA
Limited Wet Weather Discharge Activated: Yes No:	Not Applicable:	If yes, cumulative days of wet weather discharge: NA

\* Attach additional sheets if necessary to list all certified operators

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A-2

DEPARTMENT OF ENVIRONMENTAL PROTECTION/ DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater

2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 3239-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department

MAILING ADDRESS: 5901 Young Pine Road

Orlando, FL 32829

Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829

COUNTY: Orange

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

LIMIT: Final

CLASS SIZE: Minor

File No.: 48-FL0037133-001-IW7A

To:

REPORT: Quarterly

GROUP: IW

DISCHARGE POINT NUMBER: SWD-1

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading				Quality or Concentration				No. Ex	Frequency of Analysis	Sample Type
	Avg	Max	Units	Min	Avg	Max	Units				
CBOD5											
PARM No. 80082 1											
Mon. Site No. SWD-1											
Dissolved Oxygen											
PARM No. 00300 1											
Mon. Site No. SWD-1											
TKN as N											
PARM No. 00625 1											
Mon. Site No. SWD-1											
Ammonia as N											
PARM No. 00610 1											
Mon. Site No. SWD-1											
Nitrite+Nitrate as N											
PARM No. 630 1											
Mon. Site No. SWD-1											

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
---	--	---------------------------------	-----------------

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Facility Name: Orange County Class I &amp; III Landfill, Stormwater/Leachate Disposal

48-FL0037133-001-IW7A

Facility Name: Orange County Class I &amp; III Landfill, Stormwater/Leachate Disposal

48-FL0037133-001-IW7A

Discharge Point # SYD-1

Please read instructions before completing this form

[illegible]



DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection  
2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 32309-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department  
MAILING ADDRESS: 5901 Young Pine Road  
Orlando, FL 32829

Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829  
COUNTY: Orange

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

LIMIT: Final

CLASS SIZE: Minor

File No.: 48-FL0037133-001-IW7A

To:

REPORT: Quarterly

GROUP: IW

DISCHARGE POINT NUMBER: SWD-2

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex	Frequency of Analysis	Sample Type
	Avg	Max	Units	Min	Avg	Max			
CBOD5	NA	NA	NA	NA	Report	Report		Quarterly	Grab
PARM No. 80082 1									
Mon. Site No. SWD-2									
Dissolved Oxygen	NA	NA	NA	NA	Report	Report		Quarterly	Grab
PARM No. 00300 1									
Mon. Site No. SWD-2									
TKN as N	NA	NA	NA	NA	Report	Report		Quarterly	In-situ
PARM No. 00625 1									
Mon. Site No. SWD-2									
Ammonia as N	NA	NA	NA	NA	Report	Report		Quarterly	Grab
PARM No. 00610 1									
Mon. Site No. SWD-2									
Nitrite+Nitrate as N	NA	NA	NA	NA	Report	Report		Quarterly	Grab
PARM No. 630 1									
Mon. Site No. SWD-2									

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print) Signature of Principal Executive Officer Or Authorized Agent Telephone No. (incl. area code) Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



Facility Name: Orange County Class I &amp; III Landfill, Stormwater/Leachate Disposal

48-FL0037133-001-TW7A

Please read instructions before completing this form

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Facility Name: Orange County Class I & II Landfill, Stormwater/Leachate Disposal  
File No.: 48-FL0037133-001-IW7A

Discharge Point # SWI

Please read instructions before completing this form

[illegible]

## DAILY SAMPLE RESULTS - PART B

Permit Number: 48-FL0037133 Orange County Landfill NPDES

Three-month Average Daily Flow: NA

Discharge Point SWI

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

(TMADF/Permitted Capacity)x100: NA

[illegible]

PLANT STAFFING: NA

Day Shift Operator      Class:      Certificate No:      Name: \_\_\_\_\_

Evening Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Night Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Lead Operator      Class: \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse:	NA
---	----

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather discharge: NA

\* Attach additional sheets if necessary to list all certified operators.

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# DEPARTMENT OF ENVIRONMENTAL PROTECTION ION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection  
2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 3239-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department  
MAILING ADDRESS: 5901 Young Pine Road  
Orlando, FL 32829

Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829  
COUNTY: Orange

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

LIMIT: Final

CLASS SIZE: Minor

File No.: 48-FL0037133-001-IW7A

To:

REPORT: Quarterly  
GROUP: IW

DISCHARGE POINT NUMBER: SWU-1

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.			
Flow									
PARM No. 50050 1	Sample Measurement								
Mon. Site No. SWU-1	Permit Requirement	Report	MGD	NA	NA	NA		Quarterly	Catchment
CBOD5	Sample Measurement	NA	NA	NA					
PARM No. 80082 1	Permit Requirement					Report		Quarterly	Grab
Mon. Site No. SWU-1	Sample Measurement	NA	NA	NA					
Dissolved Oxygen	Permit Requirement	NA	NA					Quarterly	In-situ
PARM No. 00300 1	Sample Measurement	NA	NA	NA					
Mon. Site No. SWU-1	Permit Requirement	NA	NA	NA		Report		Quarterly	Grab
TKN as N	Sample Measurement	NA	NA	NA					
PARM No. 00625 1	Permit Requirement	NA	NA	NA		Report		Quarterly	Grab
Mon. Site No. SWU-1	Sample Measurement	NA	NA	NA					
Ammonia as N	Permit Requirement	NA	NA	NA		Report		Quarterly	Grab
PARM No. 00610 1	Sample Measurement	NA	NA	NA					
Mon. Site No. SWU-1	Permit Requirement	NA	NA	NA		Report		Quarterly	Grab
Nitrite+Nitrate as N	Sample Measurement	NA	NA	NA					
PARM No. 630 1	Permit Requirement	NA	NA	NA		Report		Quarterly	Grab
Mon. Site No. SWU-1	Sample Measurement	NA	NA	NA					

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print) Signature of Principal Executive Officer Or Authorized Agent Telephone No. (incl. area code) Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Discharge Point # SWU-1

Please read instructions before completing this form

A-2



### DAILY SAMPLE RESULTS - PART B

Permit Number: 48-FL0037133 Orange County Landfill NPDES

Three-month Average Daily Flow: NA

Monitoring Period

Discharge Point SWU-1

From: \_\_\_\_\_ To: \_\_\_\_\_

(TMADF/Permitted Capacity)x100: NA

[illegible]

PLANT STAFFING: NA

Day Shift Operator      Class:      Certificate No:      Name:

Evening Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Night Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Lead Operator      Class:      Certificate No:      Name:

Type of Effluent Disposal or Reclaimed Water Reuse:	NA
---	----

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather discharge: NA

\*Attach additional sheets if necessary to list all certified operators

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection Wastewater

2600 Blairstone Rd., Mail Station 3551 Tallahassee, FL 3239-2400

PERMITTEE NAME: Orange County Utilities Department/ Solid Waste Department

MAILING ADDRESS: 5901 Young Pine Road  
Orlando, FL 32829

Attn.: James Becker, Manager

FACILITY: Orange County Class I & III Landfill, Stormwater/Leachate Disposal

LOCATION: 5901 Young Pine Road, Orlando, FL 32829

COUNTY: Orange

PERMIT NUMBER: 48-FL0037133

MONITORING PERIOD-From:

LIMIT: Final

CLASS SIZE: Minor

File No.: 48-FL0037133-001-IW7A

To:

REPORT: Quarterly

GROUP: IW

DISCHARGE POINT NUMBER: SWU-2

PLANT SIZE/TREATMENT TYPE: NA

No Discharge ☐

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min.	Avg.	Max.			
COD5									
PARM No. 80082 1									
Mon. Site No. SWU-2									
Dissolved Oxygen									
PARM No. 00300 1									
Mon. Site No. SWU-2									
TKN as N									
PARM No. 00625 1									
Mon. Site No. SWU-2									
Ammonia as N									
PARM No. 00610 1									
Mon. Site No. SWU-2									
Nitrite+Nitrate as N									
PARM No. 630 1									
Mon. Site No. SWU-2									

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

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print) Signature of Principal Executive Officer Or Authorized Agent Telephone No. (incl. area code) Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Facility Name: Orange County Class I & III Landfill, Stormwater/Leachate Disposal  
File No.: 48-FL0037133-001-IW7A

Please read instructions before completing this form

Parameter		Quantity or Loading				Quality or Concentration				No. Ex	Frequency of Analysis	Sample Type
		Quantity or Loading		Quality or Concentration		Quality or Concentration		Quality or Concentration				
		Avg	Max	Units	Min	Avg	Max	Units	Min			
Specific Conductance PARM No. 00095 1 Mon. Site No. SWU-2	Sample Measurement	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Permit Requirement								Report		umho/cm	Quarterly
Chlorophyll a PARM No. 32230 1 Mon. Site No. SWU-2	Sample Measurement	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Permit Requirement								Report		mg/l	Quarterly
Temperature PARM No. 00010 1 Mon. Site No. SWU-2	Sample Measurement	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Permit Requirement								Report		C°	Quarterly
PH PARM No. 00400 1 Mon. Site No. SWU-2	Sample Measurement	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Permit Requirement								Report		SC	Quarterly
	Sample Measurement											
	Permit Requirement											
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	Permit Requirement											
	Sample Measurement											
	Permit Requirement											
	Sample Measurement											
	Permit Requirement											

## DAILY SAMPLE RESULTS - FAKI B

Permit Number: 48-FL0037133 Orange County Landfill NPDES

Three-month Average Daily Flow: NA

Consent Agreement OGC File 00-0710

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

(TMADF/Permitted Capacity)x100: NA

[illegible]

PLANT STAFFING: NA

Day Shift Operator      Class:      Certificate No:      Name: \_\_\_\_\_

Evening Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Night Shift Operator      Class: \_\_\_\_\_      Certificate No: \_\_\_\_\_      Name: \_\_\_\_\_

Lead Operator \_\_\_\_\_ Class: \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse:	NA
---	----

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather discharge: NA

\*Attach additional sheets if necessary to list all certified operators.

**STATEMENT OF BASIS  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: 48-FL0037133 APPLICATION DATE: 06/26/98

FILE NUMBER: 48-FL0037133-001-IW7A ADD'L INFORMATION: 07/24/98

PERMIT WRITER: Ali Kazi, P. E.

NAME OF APPLICANT: Orange County Utilities Department/Solid Waste Division

ADDRESS OF APPLICANT: 5901 Young Pine Road  
Orlando, FL 32829  
Attn.: James Becker, Manager

FACILITY NAME: Orange County Landfill Minor Non-POTW/NPDES Discharge  
Commingled Stormwater/Leachate Disposal

FACILITY LOCATION: 5901 Young Pine Road  
Orlando, Orange County, Florida  
407-836-6600

New Outfall Discharge Designation	Former Designation	Latitude	Longitude
Outfall D-004	001 (located at Pond 2)	28° 29' 23.11" N	81° 11' 45.75" W
Outfall D-001 (overflow weir)	SBRM-E and SBRM-W	28° 28' 27.17" N	81° 11' 53.87" W
Outfall D-002	002 (located at Pond 4)	28° 28' 26.99" N	81° 11' 13.27" W
Outfall D-003 (new proposed outfall)	N/A	To be determined	To be determined

TYPE OF FACILITY: Sanitary Landfill  
Standard Industrial Classification Code: 4953

Receiving Water Type	Qualifies - Yes or No	Confirmed by:
Outstanding Florida Waters	NA	Lou Ley
TMDL/WQBEL	Yes-WQBEL, D.O.	Wayne Magley
Aquatic Preserve	NA	Lou Ley
TBEL	NA	
Shellfish Waters	NA	

The receiving waters are listed on the 1998 303d list for Florida. Parameters of concern in 303d list are Dissolved Oxygen, Coliforms, Nutrients, and BOD. A reopener clause has been included in the permit conditions.

This permit authorizes no mixing zone.

PERMIT HISTORY: Previously the IW aspects of operation were regulated under the Solid Waste Permit SO48-212592. Due to NPDES delegation these aspects were separated for consolidation with the EPA permit. This is the first true consolidated NPDES Wastewater Permit.

#### DESCRIPTION OF FACILITY:

This is an existing solid waste management facility (Sanitary Landfill Permit Number SO48-212592), which receives both Class I and Class III material. The facility has two separate leachate collection, treatment and disposal systems and an associated stormwater management system. The permit includes the Consent Order File Number OGC-00-0710 as a condition of the permit.

Leachate generated within cell areas that have a bottom liner and leachate collection system is collected by perforated pipes and pumped or trucked to an offsite Publicly Owned Treatment Works (POTW). This part of the leachate collection and disposal system is not a part of this permit.

The second existing leachate collection system is for cell areas that do not have a bottom liner and leachate collection system. The system consists of two interconnected ponds, Ponds 1 and 2 (Ponds). The wastewater consists of stormwater and ground water within the drainage basin mixed with leachate from the closed, cells at the facility that do not have a bottom liner and leachate collection system. The facility maintains an artificially low water level in the Ponds 1 & 2. This is to prevent the leachate generated in the unlined fill areas from migrating in other directions/off-site. This mixture (wastewater) flows to Ponds 1 and 2. From Pond 2, the wastewater is pumped into the upper Wide Cypress Swamp Wetland Treatment System (WCSWTS) for treatment, percolation and temporary storage. WCSWTS discharges into the Landfill Outfall Ditch (LOD) on south property line, which is approximately 2.8 miles long, then into an off-site canal at the west property line. This canal flows west and then north along the west side of The Greenway (Toll Road 417) for a total of approximately 12,500 feet, then into the Little Econolockhatchee River. These water bodies are Class III fresh surface waters of the State. The Wide Cypress Swamp has been used for treatment of the commingled wastewater since the initial construction of the landfill, but has always technically been classified as waters of the State.

This permit also authorizes design of a new force main and a new Outfall D-003. Upon completion of the construction, the wastewater will cease to discharge into the Landfill Outfall Ditch (LOD) on south property line except for 25year/24 hour or higher storm events. Excess wastewater that cannot be stored/percolated into the WCSWTS will be pumped from Pond 2, via a proposed force main ( ), and discharged through a new cascade outfall. The proposed new outfall will be located at the access road (Young Pine Road) southwest of the existing scale house. The wastewater will discharge through Outfall D-003, into the Landfill Outfall Ditch (LOD) on the west property boundary, into an off-site canal. This canal flows west and then north along the west side of The Greenway (Toll Road 417) for a total of approximately 12, 500 feet, then into the Little Econolockhatchee River. These water bodies are Class III fresh surface waters of the State.

The existing lined landfill stormwater management system is designed to prevent the mixing of stormwater with leachate. The system consists of two existing interconnected ponds, Ponds 3 and 4 located just to the east of the WCSWTS. Stormwater runoff from lined cell areas of the landfill is collected in Ponds 3 and 4. Pond 4 discharges into the LOD at south property line via Outfall D-002, then flows through the Landfill Outfall Ditch (LOD) to the west property line, into an off-site canal. This canal flows west and then north along the west side of The Greenway (Hwy. 417) for a total of approximately 12, 500 feet, then into the Little Econolockhatchee River.

Existing Commingled leachate and Ground water System: The commingled wastewater is detained in Ponds 1 & 2. Wastewater pumped from the Pond 2 and discharged via Outfall D-004 will receive settling and percolation in WCSWTS. Overflow from WCSWTS then discharges under gravity into the Landfill Outfall Ditch (LOD) on south property line through existing Outfall D-001. Overflow from WCSWTS to the Landfill Outfall Ditch (LOD) on south property line shall cease upon completion of the proposed new force main and a new Outfall D-003.



## Surface Water Discharge:

## Receiving Waters:

Disposal System D-003 discharges from the end of the proposed force main to the Landfill Outfall Ditch (LOD) on west property line downstream of the sampling location LEC-1. The sampling location associated with D-003 is designated EFF-03. The LOD on west property line discharges to the Little Econolockhatchee River, a Class III fresh surface water body. The exact outfall location has not been finalized.

Disposal System D-002 (previously 002) discharges from a control structure at the southern end of Pond 4 to the eastern terminal point of the Landfill Outfall Ditch (LOD) on south property line. The LOD on south property line flows west then north along west property line, then through a canal to the Little Econolockhatchee River. The sampling location associated with D-002 is designated EFF-02 and is located at Latitude 28° 28' 26.99" N. and Longitude 81° 11' 13.27" W.

Disposal System D-004 (previously outfall 001) is the place in pond 2 next to the discharge pumping station where wastewater is pumped to the spreader swale. This sampling location is at Latitude 28° 29' 23.11" N and Longitude 81° 11' 45.75" W.

Discharge Point D-001 is on the berm between the WCSWTS and the LOD on south property line where two flow control structures regulate discharges to the LOD. Samples may be taken at either control structure. The sampling location at D-001 is located at Latitude 28° 28' 27.17" N and Longitude 81° 11' 53.87" W.

## BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS

See the table below for the rationale for the Part I.A.2, I.A.3. and Consent Order Condition 9.a.

## Discharge System D-003

Parameter		Basis for Limit/Monitoring Requirement
Flow	Daily Maximum	Section 403.088 (2)(c)1, F.S.
Flow	Monthly Average	Section 403.088 (2)(c)1, F.S.
BOD <sub>5</sub>	Monthly Grab	BPJ for D.O. compliance
TSS	Monthly Grab	BPJ
Dissolved Oxygen	Monthly Grab	Rule 62-302.530(31) F.A.C.
Total Nitrogen as N	Monthly Grab	Rule 62-302.530(47), (48)(a), (48)(b) F.A.C.
TKN as N	Monthly Grab	Rule 62-302.530(47), (48)(a), (48)(b) F.A.C.
Ammonia as N	Monthly Grab	Rule 62-302.530(47), (48)(a), (48)(b) F.A.C.
Un-ionized Ammonia as NH <sub>3</sub>	Monthly Grab	Rule 62-302.530(3) F.A.C.
Temperature	Monthly Grab	BPJ
Turbidity	Monthly Grab	Rule 62-302.530(70) F.A.C.
Conductivity	Monthly Grab	Rule 62-302.530(23) F.A.C.
Total Chlorides	Monthly Grab	BPJ
Total Sulfates	Monthly Grab	BPJ
TDS	Monthly Grab	BPJ
TOC	Monthly Grab	BPJ

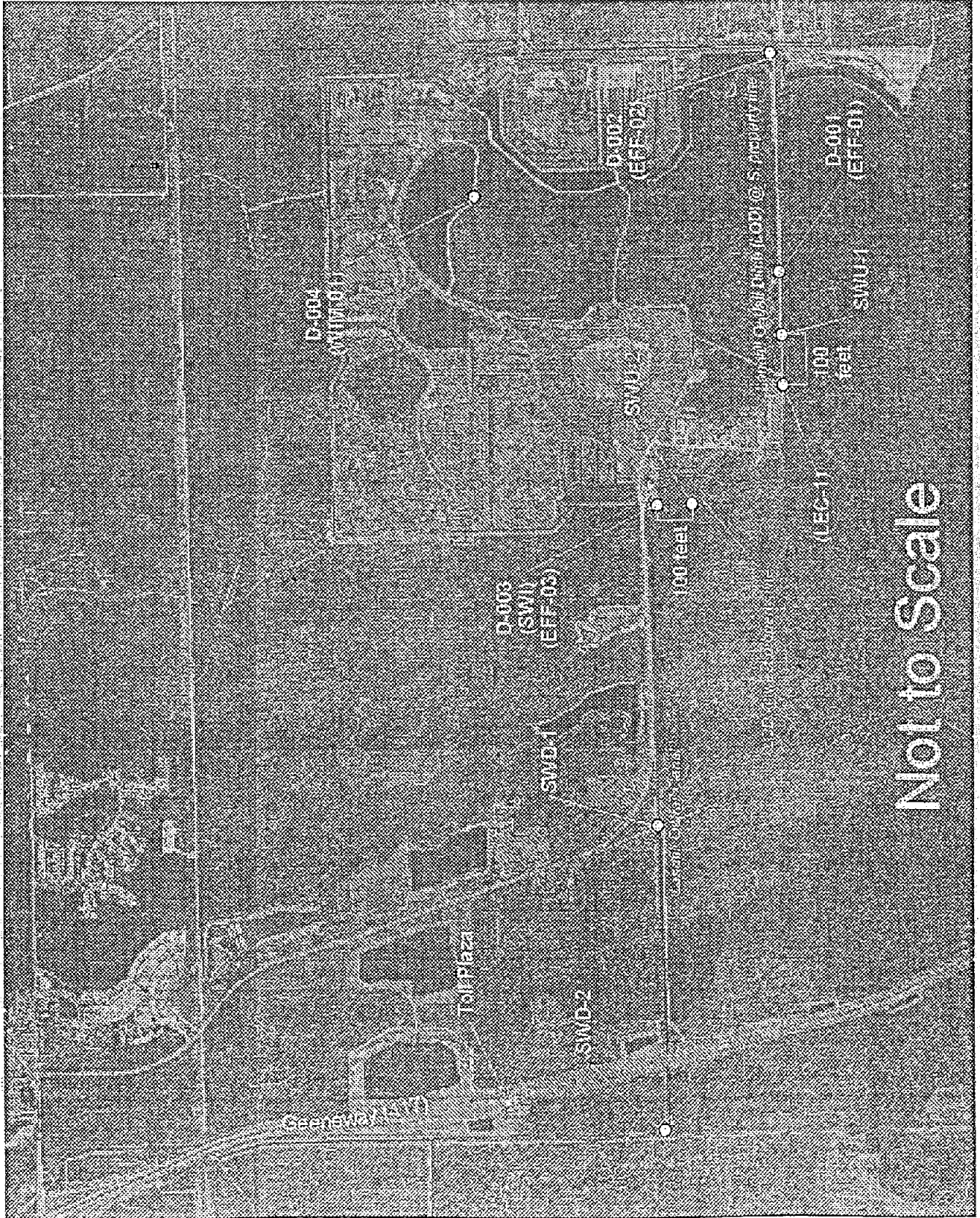
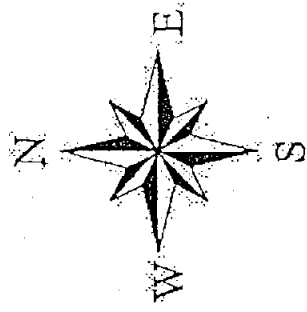


TRPH	Monthly Grab	BPJ
Oil & Grease	Monthly Grab	Rule 62-302.530(50)(a)&(b) F.A.C.
Total hardness as CaCO <sub>3</sub>	Monthly Grab	Needed for calculation of hardness based metal limits
Arsenic *	Quarterly Grab	Rule 62-302.530(5)(a) F.A.C.
Cadmium *	Quarterly Grab	Rule 62-302.530(16) F.A.C.
Chromium *	Quarterly Grab	Rule 62-302.530(20)(a)&(b) F.A.C.
Copper *	Quarterly Grab	Rule 62-302.530(24) F.A.C.
Iron *	Quarterly Grab	Rule 62-302.530(39) F.A.C.
Lead *	Quarterly Grab	Rule 62-302.530(40) F.A.C.
Manganese *	Quarterly Grab	Rule 62-302.530(41) F.A.C.
Mercury *	Quarterly Grab	Rule 62-302.530(42) F.A.C.
Silver *	Quarterly Grab	Rule 62-302.530(60) F.A.C.
Sodium	Quarterly Grab	BPJ
Zinc *	Quarterly Grab	Rule 62-302.530(71) F.A.C.
pH	Quarterly Grab	Rule 62-302.530(52)(c) F.A.C.
Acute Toxicity	Specific Condition I.D.	Rule 62-302.500(1)(a)4 F.A.C.
Monitoring Frequency and Sample Type	All Parameters	BPJ of permit writer
Sampling Location	All Parameters	BPJ of permit writer

## Discharge System D-002

Parameter		Basis for Limit/Monitoring Requirement
Flow	Daily Maximum	Section 403.088 (2)(c)1, F.S.
Flow	Monthly Average	Section 403.088 (2)(c)1, F.S.
BOD <sub>5</sub>	Monthly Grab	BPJ of D.O. compliance
Dissolved Oxygen	Monthly Grab	Rule 62-302.530(31) F.A.C.
Turbidity	Monthly Grab	Rule 62-302.530(70) F.A.C.
Total Chlorides	Monthly Grab	BPJ
Total Sulfates	Monthly Grab	BPJ
TDS	Monthly Grab	BPJ
TOC	Monthly Grab	BPJ
TRPH	Monthly Grab	BPJ
Oil & Grease	Monthly Grab	Rule 62-302.530(50)(a)&(b) F.A.C.
Total hardness as CaCO <sub>3</sub>	Monthly Grab	Needed for calculation of hardness based metals limits
Arsenic *	Semi-annually Grab	Rule 62-302.530(5)(a) F.A.C.
Cadmium *	Semi-annually Grab	Rule 62-302.530(16) F.A.C.
Chromium *	Semi-annually Grab	Rule 62-302.530(20)(a)&(b) F.A.C.
Copper *	Semi-annually Grab	Rule 62-302.530(24) F.A.C.
Iron *	Semi-annually Grab	Rule 62-302.530(39) F.A.C.
Lead *	Semi-annually Grab	Rule 62-302.530(40) F.A.C.
Manganese *	Semi-annually Grab	Rule 62-302.530(41) F.A.C.
Mercury *	Semi-annually Grab	Rule 62-302.530(42) F.A.C.
Silver *	Semi-annually Grab	Rule 62-302.530(60) F.A.C.
Sodium	Semi-annually Grab	BPJ
Zinc *	Semi-annually Grab	Rule 62-302.530(71) F.A.C.
pH	Semi-annually Grab	Rule 62-302.530(52)(c) F.A.C.

# Orange County Landfill



Not to Scale

Monitoring Frequency and Sample Type	All Parameters	BPJ of permit writer
Sampling Location	All Parameters	BPJ of permit writer

## Discharge System D-004

Parameter		Basis for Limit/Monitoring Requirement
Flow	Daily Maximum	Section 403.088 (2)(c)1, F.S.

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	02-02-94
62-302	02-27-95
62-620	11-29-94
62-650	11-27-89

B. FS refers to various portions of the Florida Statutes

C. BPJ refers to Best Professional Judgment

The Department has determined in the past that the discharge from the WCSWTS has contributed to violations of the standard for Dissolved Oxygen in the Landfill Outfall Ditch (LOD) on south property line. A QBEL was established in the permit, which has not been met. The plan included corrective measures in the LOD on south property line and downstream stretches leading to the Little Enocolockhatchee River. This permit will be issued with an accompanying Consent Agreement for corrective action. This will be based on the design and construction of a forcemain that will by-pass sections of the LOD on south property line to a new outfall further downstream in LOD on west property line. Many parameters are included because of their presence in the last, consolidated permit. These are designated BPJ. Since a detailed QBEL evaluation has been performed and metal exceedances in the past are associated with the proximity of the Orange County Police Departments firing range, reasonable assurance verification (RAV) for metals is considered unnecessary. It is addressed through the relocation of outfall D-001.

Sampling requirements for Discharge Point D-001 are included in the Consent Order. A sampling point (LEC-1) previously used in the old permit was downstream of location D-001 and upstream of the proposed D-003. This location (LEC-1) will not be used.

Based on agreement, during a meeting with the permittee on October 31, 2000, five additional sampling points are selected for sampling. These sampling points are as follows:

Monitoring Location Site Number	Description of Monitoring Location
SWU-1	A sampling location in LOD at south property line, located 100 feet upstream of exiting sampling point LEC-1.
SWU-2	A sampling location in the LOD parallel to west property boundary, located 100 feet upstream of proposed outfall D-003.
SWI	This sampling point is same as EFF-03 associated with Outfall D-003.
SWD-1	A sampling location in West Canal. It is same as former sampling location LEX.
SWD-2	A sampling location in West Canal just west of Green Way at the toll plaza.

The following is a list of agreed to parameters that will be samples and analyzed on a quarterly basis

Parameters (units)	Frequency	Basis for Limit/Monitoring Requirements
Flow	Daily Max.	BPJ
Flow	Quarterly	BPJ
CBOD <sub>5</sub>	Quarterly Grab	BPJ
Dissolved Oxygen	Quarterly Grab	BPJ
TKN as N	Quarterly Grab	BPJ
Ammonia as N	Quarterly Grab	BPJ
Nitrite+Nitrate as N	Quarterly Grab	BPJ
Specific Conductance	Quarterly In-situ	BPJ
Chlorophyll a	Quarterly Grab	BPJ
Temperature	Quarterly In-situ	BPJ
pH	Quarterly In situ	BPJ

The above list of sampling locations and parameters is in lieu of the intensive survey, which was previously a part of draft Consent Agreement OGC-00-0710.

Note to File: As a surface discharge the Department must have a Notice issued associated with Chapter 620 FAC. The Department has no concerned parties on record as relates to this facility. Therefore, the Department will use the procedure where the various designated public entities are notified by mail but not require a Notice to be placed in the newspaper. There will be some construction associated with the actions required under the Consent Agreement and Specific Condition VI of the permit.

RESIDUALS MANAGEMENT: NA

PROPOSED SCHEDULE FOR PERMIT ISSUANCE:

Proposed draft to Water Facilities for review	March 28, 2000
Preliminary Draft Permit to Applicant	April 10, 2000
Proposed Public Comment Period	Beginning: April 26, 2000 Ending: May 25, 2000
Notice of Agency Action (Form 06)	May 27, 2000

**Changes in Solid Waste Management Facility  
Operations Permit Renewal Application,  
Orange County Landfill, November 2002,  
Volume 1, Section 1.0, Application for a  
Permit to Construct, Operate, Modify or  
Close a Solid Waste Management Facility,  
Page 8 of 40, Sections 27 and 28**

25. Leachate disposal method:

- |  |  |
|--|--|
| <input type="checkbox"/> Recirculated        | <input checked="" type="checkbox"/> Pumped to WWTP   |
| <input type="checkbox"/> Transported to WWTP | <input type="checkbox"/> Discharged to surface water |
| <input type="checkbox"/> Injection well      | <input type="checkbox"/> Percolation ponds           |
| <input type="checkbox"/> Evaporation         |  |
| <input type="checkbox"/> Other               |  |

26. For leachate discharged to surface waters:

Name and Class of receiving water: N/A

27. Storm Water:

Collected: ☒ Yes ☐ No

Type of treatment: Wet detention

Name and Class of receiving water: Stanton Energy Center cooling pond or Little Econlockhatchee River, Class III surface water.

28. Environmental Resources Permit (ERP) number or status: ERP48-128114-002, active, expired March 2, 2003 but continues to be active while April 2001 RAI to a March 2001 modifications application is answered regarding. Modification ERP48-128114-003 submitted, on hold pending negotiation between Orange County and Orlando Regional Utilities regarding use of stormwater as cooling water at the Stanton Energy Center. modification for use of stormwater as cooling water at the Stanton Energy Center will be submitted. The ERP RAI response was submitted on February 13, 2004.

**Changes in Solid Waste Management Facility  
Operations Permit Renewal Application,  
Orange County Landfill, November 2002,  
Volume 2, Attachment B, Operation and  
Maintenance Plan, Page 9-3, Section 9.3,  
Description-Leachate Control System**

Orange County Solid Waste Division performs routine inspection and maintenance to maintain the closure cover system to reduce moisture infiltration and to enable proper operation of the LFG collection and removal system. Orange County continuously reviews all LFG operations data for system performance and complies with applicable permits. The County keeps all required permits in force and prepares and submits operations data as required. To date and in the future, BEI maintains the components of the LFG collection and transmission system.

### 9.3 Description – Leachate Control System

The leachate control system for the 1,500-acre site is divided into two types of systems. The leachate control system for the unlined portion (western two thirds) of the site including the Class III disposal unit is a combined stormwater/groundwater/leachate collection system that uses an inward hydraulic gradient to draw and convey stormwater and groundwater to Pond No. 1 and Pond No. 2. Dilute stormwater/groundwater/leachate is pumped from Pond No. 2 ~~into onsite Wide Cypress Swamp to the Curtis H. Stanton Energy Center (CHSEC). If for any mechanical, chemical or other reason the CHSEC cannot accept the stormwater, then it will be pumped into the onsite Wide Cypress Swamp. In the event CHSEC permanently stops the County from discharging to its cooling water pond, the County may discharge to the LOD with FDEP permission.~~ Beginning in late 1998, Orange County performed a water quality study that established that the combined water pumped from Pond 1 met Class III receiving water standards.

The leachate control system for the lined Cell 7B/8 disposal unit is separate from the stormwater management system for this disposal unit. Cell 7B has collection pipes that slope east to west for collection of leachate above the HDPE geomembrane liner. The base of Cell 8 is divided into 17 sub areas, each served by a leachate collection lateral pipe.

Leachate is removed from geomembrane-lined Cell 7B/8 using east-to-west sloping leachate laterals that connect to manholes and separate header pipes for Cell 7B and Cell 8. Both headers drain by gravity to Pump Station No. 1. Pump Station No. 1 located near the mid-point of the disposal unit on the west edge of Cell 7B/8, pumps leachate to a 500,000 gallon above-ground storage tank with leak containment. The tank is divided into two 250,000-gallon compartments. Leachate is drained out of the storage tanks to transfer pumps that pump leachate through a force main to the Eastern Water Reclamation Facility located north of the Orange County Landfill property. The leachate storage tank also has two tanker loading stations for leachate transfer to County wastewater treatment facilities. If one of the two tanks were compromised, leachate would be pumped from that tank, with supplemental removal by tank trucks.

Peak leachate flows from Cell 7B/8 are approximately 100,000 gpd. Annual average leachate flows from the Cell 7B/8 disposal unit is expected to decrease from 800 gpd/acre (64,000 gpd) to about 100 gpd/acre (9,000 gpd) in the near term just after final closure. The long-term average daily generation rate is expected to decrease to about 40 gpd/acre (3,600 gpd).

The Cell 7B/8 leachate transmission system will be modified when the SES Cells 9-12 leachate transmission system is constructed. Leachate stored in the existing Cells 7B/8 leachate storage tank will be pumped into an existing force main running along the north and west sides of the existing 1,500-acre landfill to a location just west of the County Solid Waste Division Administration Building. A new forcemain under Young Pine Road will discharge leachate from Cell 7B/8 into the SES Master Re-Pump Station. Wastewater from the administration Building and the Cell 9 support facilities will also be discharged to the Master Re-Pump Station. The Master Re-Pump Station will be connected to the Orange



**Changes in Solid Waste Management Facility  
Operations Permit Renewal Application,  
Orange County Landfill, November 2002, Volume 2,  
Attachment B, Operation and Maintenance Plan,  
Page 17-1, Section 17.1, Stormwater Control**

## SECTION 17

# Stormwater System Management

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## 17.1 Stormwater Control

Operation and Maintenance procedures for the Stormwater management system serving the 1500-acre Orange County landfill are described in detail in the "Operation and Maintenance Plan for Stormwater Facilities at the Orange County Landfill" dated December 15, 1993. A copy of this plan is kept at the Solid Waste Division Administration Building. The following is a short summary of the O&M requirements contained in the 1993 report.

Stormwater management on the 1500-acre site is accomplished by two separate stormwater systems. The "unlined area" or "western" system drains approximately 1200 acres of the southwest, west and north portion of the ~~Orange County Landfill 1500-acre site~~. The Class III disposal unit is drained by this system. The western system collects ~~S~~stormwater runoff through perimeter ditches, internal ditches and interconnected Ponds No. 1 and No. 2. The water levels in Pond No. 1 and Pond No. 2 are ~~pumped down using a triplex stormwater pump station in Pond No. 2 which discharges into onsite Wide Cypress Swamp~~. ~~Bermed onsite Wide Cypress Swamp drains through control structures to the south ditch that flows westward. On the west side of the Orange County landfill, the west ditch conveys stormwater to an outfall ditch along the south edge of Young Pine Road, maintained using a modified storm water pump station in Pond No. 2 which discharges through a forcemain to CHSEC. Draw down of the ponds creates an inward hydraulic gradient, capturing the groundwater and storm water from the unlined disposal areas. CHSEC will re-use the transmitted water as a substitute for water that would be withdrawn from the aquifer. If for any physical, mechanical, chemical or other reason CHSEC cannot accept the stormwater temporarily, then Pond 2 water will be discharged into onsite Wide Cypress Swamp. Discharge from the onsite Wide Cypress Swamp will only occur after a 25 year 24 hour storm event. In the case of a permanent shutdown of pumping water to CHSEC, it will be diverted directly to the landfill outfall ditch (LOD) on the west side of the property, bypassing the Wide Cypress Swamp. The Pond No. 2 storm water pump station has a peak capacity of approximate 5500 gpm, and has an emergency generator to ensure continued operation with loss of external electrical supply.~~

~~The Pond No. 2 stormwater pump station has a peak capacity of approximate 6000 gpm, and has an emergency generator to ensure continued operation with loss of external electrical supply. Drawdown of the ponds creates an inward hydraulic gradient, capturing the groundwater and stormwater from the unlined disposal areas. In the future, the County plans to diminish the discharge to Wide Cypress Swamp by sending the Pond 2 water via pipeline to the Curtis H. Stanton Energy Center. CHSEC will re-use the transmitted water as a substitute for water that would be withdrawn from the aquifer. About 150 acres used for non-disposal activities, located on the west edge of the 1500-acre property, drain directly to the Wide Cypress Swamp.~~

The "lined area" or "eastern" Stormwater system drains the northeast corner of the site, the Cell 7B/8 operational area and adjacent support facilities for Cell 7B/8. Approximately 215 acres are collected by the eastern Stormwater management system. Stormwater is considered "clean stormwater" because it has been segregated from landfill leachate. Stormwater flows from a north-south ditch on the eastern edge of the northwest corner of the eastern Stormwater system through a culvert to interconnected Pond No. 3 and Pond No. 4 discharges over a weir control structure into the South Ditch.