



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

NOTICE OF PERMIT

SENT BY E-MAIL TO:

(lm Marion@co.volusia.fl.us)

In the Matter of an
Application for Permit by:

Volusia County Department of Solid Waste
Management
3151 East New York Avenue
DeLand, FL 32724

Attention: Leonard Marion
Solid Waste Director

PERMIT NUMBER: 64-FLA662356
FILE NUMBER: 64-FLA662356-001-IW8D
Volusia County - IW
VCDSWM-Tomoka Farms Road Landfill Leachate
System

Dear Mr. Marion:

Enclosed is Permit Number 64-FLA662356 to construct and operate a new existing industrial wastewater and disposal system issued under Chapter 403, Florida Statutes (F.S.).

Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

Any party to this order (permit) has the right to seek judicial review of the permit under Section 120.68, Florida Statutes, by the filing of a Notice of Appeal under Rules 9.110 and 9.190, 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, 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

A handwritten signature in black ink that reads "Christianne C. Ferraro".

Christianne C. Ferraro, P. E.
Program Administrator
Water Facilities

Date: April 15, 2009

FLA662356 - VCDSWM-Tomoka Farms Road Landfill Leachate System/ Volusia County



Upper Zone
Monitoring Well
SFU-2

Lower Zone
Monitoring Well
SFL-2

Upper Zone
Monitoring Well
SFU-3

Lower Zone
Monitoring Well
SFL-3



SPRAYFIELD



Background
Upper Zone
Monitoring Well
SFU-1

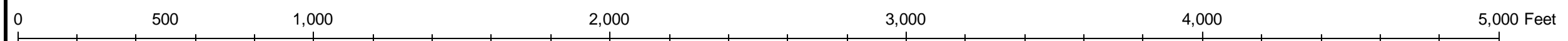
Background
Lower Zone
Monitoring Well
SFL-1

Volusia County Tomoka Farms Road Landfill Sprayfield Site



Legend

-  Piezometer Sites
-  Surface Water Sampling Sites





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STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMITTEE:

Volusia County Department of Solid Waste Management
3151 East New York Avenue (S.R. 44)
DeLand, FL 32724

PERMIT NUMBER:

64-FLA662356

FILE NUMBER:

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ISSUANCE DATE:

April 15, 2009

EXPIRATION DATE:

April 13, 2014

RESPONSIBLE AUTHORITY:

Mr. Leonard Marion
Solid Waste Director

FACILITY:

VCDSWM-Tomoka Farms Road Landfill Leachate System
1990 Tomoka Farms Road
Port Orange ~~Daytona Beach~~, FL 32124
Volusia County

Latitude: 29° 8' 1.98" N Longitude: 81° 6' 14.38" W

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.). The above named permittee is hereby authorized to construct and 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 a new industrial wastewater treatment and disposal system which will treat the leachate from two sources (two wastestreams). These wastestreams are: (a). leachate from the existing landfill (shown as the existing leachate riser pumps on DEP Orlando Exhibit 1 attached), (b). leachate from the West Volusia Transfer Station. Wastestream (a) may be stored in a lined 3.1 Million Gallon influent storage basin or pumped to the wastewater treatment system permitted herein. The construction of the influent pond and the leachate recirculation system is a part of the DEP Solid Waste permit number SO64-0078767.

The combined average daily design flow (ADF) to the treatment system is 0.045 MGD and the maximum daily flow (MDF) is 0.090 MGD. The treatment system uses a sequencing batch reactor. A 3.1 MG lined "Effluent Storage Basin" is provided for storage of the treated effluent during wet weather conditions. The disinfected plant effluent may be reused for (1). Reuse in the Non-potable water (NPW) at the landfill facilities; (2). Onsite (landfill facility site) dust control and/or (3). Disposal on the new 26 acre land application site or disposal on an alternate DEP approved location. If the reuse water from the NPW system generates another wastestream, it shall be discharged back into this industrial treatment system.

WASTEWATER TREATMENT:

The treatment system will have the two wastestreams blended together, an equalization tank of 38,776 gallons operating capacity, dual trains of equipment with aeration and anoxic zone tanks, both with methanol addition. Each

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aeration tank has a capacity of 60,476 gallons and the anoxic tanks have 52,779 gallons capacity each. The effluent from these units goes to a chlorine contact tank, which has a capacity of 34,715 gallons. Make up water is added, as needed, to the chlorine contact chamber if adequate quantity of treated water is not available. Water from the Chlorine Contact Tank is sent to the slow rate land application system G-002 for disposal, to the lined holding pond for storage, other non-potable water reuse at the landfill facilities or reused for dust control.

Sludge solids removed in the anoxic tanks are directed to a sludge holding basin of 35,814 gallons capacity. The sludge from the holding basin will be dewatered in a dual dewatering bed system with polymer addition and each bed has 140 square feet of area. The sludge cake will be sent to the facility landfill. Water decanted from the sludge dewatering beds is pumped back to the plant head works.

EFFLUENT DISPOSAL:

Surface Water Discharge:

Discharge to surface waters of the State is not authorized by this permit. However, a monitoring Group D-002 is established to check impact of the ground water discharge, if any, to the surrounding wetlands or to the Tomoka River drainage basin, Class III Fresh waters. The impact will be checked with Class III Fresh Surface standards/criteria as established in Rule 62-305 FAC. A surface water sampling protocol is included in this permit. See permit condition number I.A.3 which will prohibit effluent land application if the surrounding wetlands or associated surface waters are impacted.

Land Application:

A new 0.0313 MGD average daily flow (ADF) land application system (G-002) consisting of a bermed 26 acre spray irrigation field. Land application system G-002 is located approximately at latitude 29° 08' 0.66" N, longitude 81° 06' 41.7" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Part I through Part VIII on pages 3 through 21 of this permit.

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I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

1. There shall be no direct discharge to the wetlands or surface waters of the State. Discharges of lateral flowing treated wastewater or treated wastewater combined with stormwater runoff water off the land application site is prohibited.
2. The surface/ground water sampling required in Permit Conditions I.E.8 and 9 is to provide an assurance that there shall be no adverse impact to the wetlands or surface waters of the State due to the wastewater effluent applied to the land application system. Early warning monitoring wells (piezometers) OTH-01 through OTH-06 shall be used to collect ground water samples to monitor ground water quality and operational trends at the land application site which could potentially impact surface water quality. Base line and future results of this testing shall be compared with the criteria for Class III fresh surface waters as contained in Rule 62-302.530 FAC (as amended or revised) and Chapter 62-4 FAC Narrative criteria defined by Rule 62-302.530 FAC shall be checked against the base line values reported by the permittee based on sampling done before the disposal-system is placed in service. The test results shall be submitted for each calendar year by the 28th day of January in the following year.
3. In the event that any parameter in the surface water and/or Piezometer sampling location shows an exceedance of the Class III fresh surface water quality standards, which are greater than 110% of the established background levels the permittee shall notify the Department within 72 hours. The permittee shall collect and analyze 3 samples at the location showing the exceedance and report the results to the Department. If all three samples show an exceedance of the same parameter, the permittee shall meet with the Department to develop a plan to identify the cause of the exceedances and if the land application of the treated wastewater is determined to be causing the problem, then implement corrective action, which may include ceasing operation of the disposal suite. Invalidated follow up samples may be counted as exceedances for this purpose

B. Underground Injection Control Systems

1. This section is not applicable to this facility.

C. Land Application Systems

1. During the period beginning upon placing the system into operation and lasting through the expiration date of this permit, the permittee is authorized to discharge process wastewater to Land Application System G-002, a spray irrigation field. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.E.2.:

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	0.045	0.090	--	Daily	Meter	FLW-01
pH (SU)	--	9.5	6.0	Weekly	Grab	EFF-01
Solids, Total Suspended (MG/L)	--	Report	--	Monthly	Grab	EFF-01

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Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Carbon, Total Organic (TOC) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Sodium, Total (as Na) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Chloride (as Cl) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Nitrogen, Total (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Nitrogen, Total (pounds total) *		Report		Monthly	Calculate	EFF-01
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Nitrogen, Kjeldahl, Total (as N) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Phosphorus, Total (MG/L)		Report		Monthly	Grab	EFF-01
Phosphorus, Total (pounds total) *		Report		Monthly	Calculate	EFF-01
Silver, Total Recoverable (UG/L)	--	Report	--	Monthly	Grab	EFF-01
Iron, Total Recoverable (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Mercury, Total Recoverable (UG/L)	--	Report*	--	Monthly	Grab	EFF-01
Aluminum, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-01
Arsenic, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01
Chromium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01
Nickel, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01
Selenium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01
Thallium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01
Cadmium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01
Barium, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-01
Copper, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01

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Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Vanadium, Total Recoverable (UG/L)	--	Report**	--	Quarterly	Grab	EFF-01
Zinc, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-01
2-Butanone (UG/L)	--	Report	--	Monthly**	Grab	EFF-01

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.

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 is the highest allowable daily discharge.

* Calculate this value as follows: (total flow in a Calendar month) x (TN or TP concentration in MG/L for that month) x 8.34=pounds per month.

** This parameter is only required for the first two sampling events after the system is placed in service unless the Results indicate significant concentrations are present. Significant here means 0.50 mg/L or more.

2. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.C.1 and as described below:

Sample Point	Description of Monitoring Location
FLW-01	Flow meter on the force main from the treatment plant to the disposal system.
EFF-01	Sampling port on the effluent force main to the disposal system.

3. The disposal system shall be built and operated such that a minimum set back from the edge of the wetted surface area to the edge of the wetlands/surface waters of the State is 75 feet. A berm that is a minimum of 12 inches high shall be provided at the outer edge of the 75 foot setback, along the tree line and separate the buffer zone from the wetlands/surface waters of the State. The berm shall be at least 24 inches wide on the top with a 3:1 (horizontal to vertical) side slopes. The 75 foot buffer area and the berm shall be sodded to maintain ground cover. No treated effluent shall be applied in the setback area. See DEP Orlando Exhibit number 3 for details.

4. An electronic elevation sensor shall be installed in Piezometer OTH 03 or OTH 04 of the land application site. The probe shall be set to detect Ground Water elevation at 29.50 feet NGVD with the surface of the application site graded to an elevation of 31.0 feet. This will provide a minimum required 18 inch deep dry root zone. The probe shall automatically turn off the land application when the water level in the peizometer is detected at elevation 29.5 NGVD.

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- 5. Starting within 30 days of operation of this system, the permittee shall test a grab sample of the treated effluent for 2Butanone and report the results with the routine Monthly monitoring report. A second test shall be done the next month and then a waiver of this testing may be requested based on the data obtained. The waiver must be requested in writing with the two data points presented.
- 6. Loading of TN and TP shall be calculate in the total number of pounds of each applied to the disposal site per monthly reporting period. This information shall be made available to inspectors at the site and submitted to the Department annually in a summary for the preceding year by January 30 of the following year.
- 7. The nutrient value of the crop harvested off the site shall be calculated using the best available means. This information shall be made available to inspectors at the site and submitted to the Department with the annual summary for the preceding year by January 30 of the following year.

D. Other Methods of Disposal or Recycling

- 1. There shall be no discharge of industrial wastewater from this facility to ground or surface waters, except as authorized by this permit.

E. Other Limitations and Monitoring and Reporting Requirements

- 1. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Central District Office Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, quarterly, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type on DMR	Monitoring Period	DMR Due Date
Monthly	first day of month – last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	April 28 July 28 October 28 January 28

If no discharge occurs during the reporting period, sampling requirements of this permit do not apply. However, the DMRs shall be submitted as specified above with the NO DISCHARGE FROM SITE indicator box checked or the statement, “No Discharge” written thereon. If, during the term of this permit, the facility ceases to discharge, the Department shall be notified immediately upon cessation of discharge. Such notification shall be in writing.

The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department at the address specified below:

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

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

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

Phone Number - (407) 893-3313

FAX Number - (407) 893-3166 (All FAX copies shall be followed by original copies.)

- 3. All reports and other information shall be signed in accordance with requirements of Rule 62-620.305, F.A.C.
- 4. The permittee shall provide safe access points for obtaining representative samples which are required by this permit.
- 5. If there is no discharge from the facility at Discharge point G-002 on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
- 6. Any bypass of the treatment facility, which is not included in the monitoring specified in Section I.C 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 reportable data. All monitoring results shall be reported on the appropriate DMR.
- 7. The permittee shall review the requirements of Rule 621-621.300 FAC for any construction dewatering activities that will require short term discharge to the surface waters of the State. Please contact this office before commencing the short term surface water discharges due only to the construction activity.
- 8. A testing program shall be implemented by the permittee as follows, in accordance with the testing locations shown in DEP Exhibit Number 2. Standing water sampling locations designated WEN-01 through WEN-05 shall be sampled every other month. A minimum of 2 sets of samples (two sampling events) shall be performed before the land application system is placed in service. Tests performed before the application site is placed in service shall be so denoted. The data so generated shall be considered baseline or background water quality in the surface water. The permittee shall perform the tests every two months after the land application system is placed in service.

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point *
pH (SU)	--	Report	--	every other month	Grab	
Solids, Total Suspended (MG/L)	--	Report	--	every other month	Grab	
Carbon, Total Organic (TOC) (MG/L)	--	Report	--	every other month	Grab	

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	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point *
Sodium, Total (as Na) (MG/L)	--	Report	--	every other month	Grab	
Chloride (as Cl) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Total (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Kjeldahl, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Silver, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Iron, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Mercury, Total Recoverable (UG/L)	--	Report*	--	every other month	Grab	
Aluminum, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Arsenic, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Chromium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Nickel, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Selenium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Thallium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Cadmium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Barium, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Copper, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Vanadium, Total Recoverable (UG/L)	--	Report**	--	every other month	Grab	
Zinc, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	

* Surface water sampling locations WEN-1 through WEN- 5, provided adequate water is available to take a representative sample. The first two sampling events shall be scheduled before the land application site is placed in service. They should be preferably two months apart.

An annual summary of the test data shall be submitted based on the calendar year by the 28th day of January in the following year using the Form E provided with the permit.

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The permittee may request a reduction in the frequency of these tests after 12 sets of data from the testing is completed.

- The permittee shall establish Piezometers at the locations shown on DEP Exhibit Number 2. These will be designated sampling locations OTH-01 through OTH-06. A minimum of 2 sets (two sampling events) of samples shall be performed before the land application system is placed in service. Tests performed before the application site is placed in service shall be so denoted. The data so generated shall be considered baseline or background water quality in the surface water. These Piezometers shall continue to be sampled every other month thereafter until a total of 8 sets of data are completed.

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency **	Sample Type	Sample Point *
pH (SU)	--	Report	--	every other month	Grab	
Solids, Total Suspended (MG/L)	--	Report	--	every other month	Grab	
Carbon, Total Organic (TOC) (MG/L)	--	Report	--	every other month	Grab	
Sodium, Total (as Na) (MG/L)	--	Report	--	every other month	Grab	
Chloride (as Cl) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Total (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Kjeldahl, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Silver, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Iron, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Mercury, Total Recoverable (UG/L)	--	Report*	--	every other month	Grab	
Aluminum, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Arsenic, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Chromium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Nickel, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Selenium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	

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Thallium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Cadmium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Barium, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Copper, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Vanadium, Total Recoverable (UG/L)	--	Report**	--	every other month	Grab	
Zinc, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	

* Shallow Piezometers OTH-01 through OTH-06.

** The permittee may request a reduction in the frequency of these tests after 8 sets of data from the testing is completed. An annual summary of the test data shall be submitted based on the calendar year by the 28th day of January in the following year using the Form E provided with the permit.

II. Industrial Sludge Management Requirements

A. Basic Management Requirements:

1. Solids and sludges from this system shall be recovered and disposed at a Class I or Class II landfill site authorized by the Department to accept solid waste under Chapter 62-701, F.A.C.
2. Onsite, referring to the G-002 land application site, application of solids (residuals) is not authorized.
3. Waste oil removed from any treatment unit in this system shall be stored onsite in a separate waste oil tank. The stored waste oil shall be managed and ultimately disposed by a licensed used oil recycler in accordance with the provisions of Chapter 62-710, F.A.C.
4. Mixing of any waste product generated from this system with septage or domestic residuals are prohibited.

III. Ground Water Monitoring Requirements

A. Construction Requirements

1. The new ground water monitoring wells shall be installed within 90 days of the Department's issuance of this permit.
2. The monitoring wells shall be constructed per the proposed well construction drawings as approved by the Department.
3. The permittee shall give at least 72-hours notice to the Department's Central District Ground Water Section, prior to the installation of the new monitoring wells detailed below. [62-4.070]

PERMITTEE:

Volusia County Department of Solid Waste Management
 3151 East New York Avenue (S.R. 44)
 DeLand, FL 32724

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4. Prior to construction of the new ground water monitoring well, a soil boring shall be made at the monitoring well location in order to establish the well depth and screen interval. [62-522.900(3)]
5. Within 30 days after installation of the new monitoring wells, the permittee shall submit to the Department's Central District Ground Water Section detailed information on the well's location, soil borings, and construction on the attached DEP Form 62-522.900(3), Monitor Well Completion Report. [62-522.600]

B. Operational Requirements

1. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared under Rule 62-522.600, F.A.C.
2. The following monitoring wells shall be sampled quarterly. Sampling must be reasonably spaced to be representative of potentially changing conditions:

Facility MW Name	Permit Builder MW ID	WAFR ID/#	Well Type	Depth (Feet)	Aquifer Monitored	New or Existing
Sprayfield						
SFU-1	MWB-1U	99389	Background	--	Upper Surficial	New
SFL-1	MWB-1L	99390	Background	--	Lower Surficial	New
SFU-2	MWC-2U	99391	Compliance	--	Upper Surficial	New
SFL-2	MWC-2L	99393	Compliance	--	Lower Surficial	New
SFU-3	MWC-3U	99394	Compliance	--	Upper Surficial	New
SFL-3	MWC-3L	99395	Compliance	--	Lower Surficial	New

MWB- Background Well; MWC = Compliance Well

3. The monitor wells specified in Permit Condition III.B.2 shall be sampled for the parameters listed below in Permit condition III.B.3 (a) and III.B.3 (b):

(a) List of Field Parameters:

Field Parameter Name	Compliance Well Limit	Units
Water level (Feet, NGVD)	Report	Feet
Specific Conductance	Report	Umhos/cm
pH	6.5-8.5	SU
Dissolved Oxygen	Report	mg/L
Color	Report	PT.CO.
Turbidity	Report	NTU
Temperature	Report	Deg. C.

(b) List of Laboratory Parameters:

Laboratory Parameter Name	Compliance Well Limit	Units
Aluminum	0.2	mg/L
Antimony	0.006	mg/L
Arsenic	0.010	mg/L
Barium	2	mg/L
Beryllium	0.004	mg/L

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Laboratory Parameter Name	Compliance Well Limit	Units
Cadmium	0.005	mg/L
Chloride	250	mg/L
Chromium	0.1	mg/L
Cobalt	Report	mg/L
Copper	1	mg/L
Iron	0.3	mg/L
Lead	0.015	mg/L
Mercury	0.002	mg/L
Nickel	0.1	mg/L
Nitrogen, Kjeldahl, Total (as N) TKN	Report	mg/L
Nitrate, Total (as N)	10	mg/L
Nitrogen, Total (as N)	Report	mg/L
Nitrogen, Ammonia, Total (as N)	Report	mg/L
Selenium	0.05	mg/L
Silver	0.1	mg/L
Sodium	160	mg/L
Thallium	0.002	mg/L
Vanadium, Total Recoverable	0.049	mg/L
Zinc	5	mg/L
Total Dissolved Solids	500	mg/L

Metals shall be reported as Total Recoverable.

4. Based on the collection of initial leachate characterization data as well as groundwater monitoring data for first eight (8) quarters at the sprayfield site, the parameter list mentioned above in Permit Condition III.B. 3(b) may be revised by adding or deleting appropriate parameters.
5. The permittee's discharge to ground water shall not cause a violation of water quality standards for ground waters at the boundary of the zone of discharge in accordance with Rules 62-520.400 and 62-520.420, F.A.C.
6. The permittee's discharge to ground water shall not cause a violation of the minimum criteria for ground water specified in Rule 62-520.400, F.A.C., within the zone of discharge.
7. Water levels shall be recorded prior to evacuating the well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NGVD allowable) at a precision of plus or minus 0.1 feet.
8. Ground water monitoring wells shall be purged prior to sampling to obtain a representative sample.
9. Analyses shall be performed on unfiltered samples. The permittee may request that filtered samples be approved on the basis that filtered samples are more representative of ground water conditions. Such requests for approval shall be in writing to the Central District Ground Water Program with technical justification.
10. Ground water monitoring test results shall be submitted on Part D of DEP Form 62-620.910(10) (attached) and shall be submitted to the Central District Ground Water Section (see I.E.2. for address). A completed Certification Page shall accompany each quarter of monitoring data. The quarterly ground water monitoring results shall be submitted with the DMR as shown in the following schedule:

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SAMPLE PERIOD	REPORT DUE DATE
January - March	April 28
April - June	July 28
July - September	October 28
October - December	January 28

11. If a monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Central District's Ground Water Section immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. The Department shall approve repair or replacement of monitoring wells in advance.
12. The permittee shall provide verbal notice to the Central District's Ground Water Section as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

IV. Other Land Application Requirements

1. Effluent shall be distributed evenly over the entire land application site within the directions of the Best Management Practices plan.
2. The permittee shall ensure that neither ponding nor run-off from the land application site occurs as a result of the spray irrigation of effluent.
3. The frequency and rate of land application shall be managed by the permittee to avoid secondary environmental impacts such as severe odors, insect and pest problems and other nuisance conditions.
4. The average hydraulic loading rate shall be limited to a maximum of 0.30 inches/week.
5. A crop cover of sod or an approved alternative will be grown on the land application site. Additional Nutrients such as fertilizers will not be applied to the land application site. The crop will be harvested periodically and records kept of the date & amount harvested. The permittee will calculate the TN and TP in total pounds harvested and removed from the site. This information shall be provided annually in the same report specified in permit condition I.C.8 above.

V. Operation and Maintenance Requirements

A. 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 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:

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- 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, other than those required in items a. and f. of this section, required by the permit 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;
- 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. Schedules

- 1. A Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit and the following schedule:

Action Item		Scheduled Completion Date
1	Develop BMP Plan	Issuance Date of Permit + 6 months
2	Implement BMP Plan	Date of Certificate of Completion of Construction

- 2. An operational level of compliance with the terms and conditions of this permit shall be attained within 14 days from the Issuance Date. Where construction is required and time for that construction is included the schedule contained herein, then the permittee is considered in compliance in the interim period with reference to the completion of construction. This applies to the period allowed for the development of the BMP.
- 3. No later than 14 calendar days following a date identified in the above schedule(s) 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. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) F.S., applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.

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3. 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.
4. The permittee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

B. Specific Conditions Related to Construction

1. Within thirty days of completion of construction, the permittee shall submit to the Department a completed "Certification of Completion of Construction" (DEP Form 62-620.910(12)) signed and sealed by the engineer of record or other engineer registered in the state of Florida.
2. Record drawings shall be prepared and made available in accordance with Rule 62-620.410(6), F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting within six months of placing the facilities into operation.

C. Duty to Reapply

- 1 The permittee shall apply for renewal of this permit at least 180 days before the expiration date of the permit using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. The existing permit shall not expire until the Department has taken final action on the application renewal in accordance with the provisions of 62-620.335(3) and (4), F.A.C.

D. Specific Conditions Related to Best Management Practices

1. **BMP Plan:**

For purposes of this part, the terms "pollutant" or "pollutants" refer to any substance listed as toxic under Section 307(a)(1) of the Clean Water Act (the "Act"), oil, as defined in Section 311(a)(1) of the Act, and any substance listed as hazardous under Section 311 of the Act. The permittee shall 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.

2. **Implementation:**

The BMP plan shall be developed and implemented in accordance with the schedule contained in Part VI of this permit.

3. **General Requirements:**

The BMP plan shall:

- a. Be documented in narrative form, and shall include any necessary plot plans, drawings or maps.
- b. Establish specific objectives for the control of pollutants.

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- (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain, etc.
 - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural conditions (e.g., precipitation), or other circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- c. Establish specific best management practices to meet the objectives identified under paragraph b. of this subsection, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented.
 - d. Be reviewed by plant engineering staff and plant manager.

4. **Documentation:**

The permittee shall maintain the BMP plan at the facility and shall make the plan available to the Department upon request.

5. **BMP Plan Modification:**

The permittee shall amend the BMP plan whenever there is a change in the facility or change in the operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.

6. **Modification for Ineffectiveness:**

If the BMP plan proves to be ineffective in achieving the general objective of preventing the release of significant amounts of pollutants to surface waters and the specific objectives and requirements under paragraphs b. and c. of item 3, the permit shall be subject to modification pursuant to rule 62-620.325, F.A.C., to incorporate revised BMP requirements.

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

1. This section not applicable to this permit.

F. Reopener Clause

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable.
2. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
3. Controls any pollutant not addressed in the permit.
4. The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

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5. The permit may be reopened to adjust effluent limitations or monitoring requirements should DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement.

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(1), F.A.C.]*
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 constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2), F.A.C.]*
3. As provided in subsection 403.087(7), 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 infringements 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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*

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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 upon 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; and
 - 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), F.A.C.]
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, Florida Statutes, 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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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), F.A.C.]*
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 Department approves the transfer. *[62-620.610(14), F.A.C.]*
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), F.A.C.]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), 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), F.A.C.]*

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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 description of the anticipated noncompliance;
 - The period of the anticipated noncompliance, including dates and times; and
 - Steps being taken to prevent future occurrence of the noncompliance.
- [62-620.610(17), F.A.C.]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
- 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), or as specified elsewhere in the permit.
 - 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.
 - Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
 - Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
 - Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220 and 62-160.330, F.A.C.
- [62-620.610(18), F.A.C.]*
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), F.A.C.]*
20. The permittee shall report to the Department's Central District Office 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.
- The following shall be included as information which must be reported within 24 hours under this condition:
 - Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - Any unauthorized discharge to surface or ground waters.
 - Oral reports as required by this subsection shall be provided as follows:
 - For unauthorized releases or spills of untreated or treated wastewater reported pursuant to

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- subparagraph a.(4) that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling 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; and
 - (j) Other persons or agencies contacted.
- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.(1) above, shall be provided to Department's Central District Office within 24 hours from the time the permittee becomes aware of the circumstances.
- c. 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's Central District Office shall waive the written report.
[62-620.610(20), F.A.C.]
21. The permittee shall report all instances of noncompliance not reported under Conditions VIII.17., 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), F.A.C.]*
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; and
 - (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 back-up 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 preventative maintenance; and
 - (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, it 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.

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64-FLA662356-001-IW8D

ISSUANCE DATE:

April 15, 2009

EXPIRATION DATE:

April 13, 2014

[62-620.610(22), F.A.C.]

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 that 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; and
 - (4) The permittee complied with any remedial measures required under Condition VIII.5. of this permit.
- b. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.

PERMITTEE:

Volusia County Department of Solid Waste Management
3151 East New York Avenue (S.R. 44)
DeLand, FL 32724

PERMIT NUMBER:

64-FLA662356

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- 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), F.A.C.]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Christianne C. Ferraro, P. E.
Program Administrator

DATE: April 15, 2009

**FACT SHEET
FOR
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
INDUSTRIAL WASTEWATER FACILITY PERMIT**

Permit No.: 64-FLA662356

Permit Writer: Eugene Elliott, Engineer IV

Application No.: 64-FLA662356-001-IW8D

Application Date: August 11, 2008

Additional Information: Was provided 10/9/2008 and 12/3/2008.

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant:

Volusia County Department of Solid Waste Management
3151 East New York Avenue (S.R. 44)
DeLand, FL 32724
Mr. Leonard Marion, Solid Waste Director

For:

VCDSWM-Tomoka Farms Road Landfill Leachate System
1990 Tomoka Farms Road
Daytona Beach, Volusia County, FL 32124
Facility Contact: Jennifer R. Stirk, ES III

b. Type of Facility

Primary SIC 9511 AIR & WATER RESIDUALS & SOLID WASTE MGT

This is a new industrial wastewater treatment and disposal system which will treat the leachate from this landfill and that which is transmitted to the site from the West Volusia Transfer Station. The average daily flow designed for the system is 0.045 MGD and a maximum of 0.090 MGD. The treatment system will use a sequencing batch reactor design, an existing lined 3.1 MG raw leachate holding pond (to be permitted under the DEP Solid Waste permit) and a second 3.1 MG lined pond for treated effluent from the new treatment plant. The effluent pond will store treated effluent during periods when the ground water elevation is within 18 inches of ground surface in the disposal area as measured in either a Piezometer denoted as sampling station OTH-03 or OTH-04.

c. Design Capacity of Facility

Existing Design Capacity: 0.090 MGD

d. Applicant's Receiving Water

Discharge is by land application on a sprayfield designated G-002 with a wetted surface area of 26 acres. The disinfected plant effluent may also be reused for (1). Reuse in the Non-potable water (NPW) at the landfill facilities; (2). Onsite (landfill facility site) dust control and/or (3). Disposal on an alternate DEP approved location.

Latitude: 29° 08' 0.66" N Longitude: 81° 06' 41.7" W

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See attached map(s), DEP Exhibit Number 1 for the location(s) of effluent disposal and land application sites.

Discharge to surface waters of the State is not authorized by this permit. However, a monitoring Group D-002 is established to check impact of the ground water discharge, if any, to the surrounding wetlands or to the Tomoka River drainage basin, Class III Fresh waters. The impact will be checked with Class III Fresh Surface standards/criteria as established in Rule 62-302 FAC.

e. Description of Wastewater Treatment Facilities

The treatment system will have the two wastestreams (leachate from this landfill and leachate from West Volusia Transfer Station) and blended together, an equalization tank of 38776 gallons operating capacity, dual trains of equipment with aeration and anoxic zone tanks, both with menthol addition. Each aeration tank has a capacity of 60,476 gallons and the anoxic tanks have 52,779 gallons capacity each. The effluent from these units goes to a chlorine contact tank which has a capacity of 34,715 gallons. Make up water for blending is drawn from a borrow pit under a consumptive use permit and mixed with the treated effluent in this tank. Make up water is added, as needed, to chlorine contact chamber if an adequate quantity of treated water is not available. Water from the Chlorine Contact Tank is sent to the slow rate land application system G-002, to the wet weather line holding pond, reused as a non-potable water source in the landfill area or reused for dust control.

The solids removed in the anoxic tanks are directed to a sludge holding basin of 35,814 gallons capacity. The facility will have a dual dewatering bed system with polymer addition and each bed has 140 square feet of area. The sludge cake will be sent to their landfill. Water decanted from the sludge holding basin is pumped back to the treatment plant head works.

f. Description of Discharges (as reported by applicant)

The Department will require additional sampling to assure that the operation of the slow rate land application system does not impact the wetlands/surface waters surrounding the disposal area.

2. PROPOSED EFFLUENT LIMITATIONS

- a. The Discharge from Land Application System G-002 shall be limited and monitored by the Applicant as specified below:

Parameters	Effluent Limitations		
	Monthly Average	Daily Maximum	Daily Minimum
Flow (MGD)	0.045	0.090	--
pH (SU)	--	9.5	6.0
Solids, Total Suspended (MG/L)	--	Report	--
Carbon, Total Organic (TOC) (MG/L)	--	Report	--
Sodium, Total (as Na) (MG/L)	--	Report	--
Chloride (as Cl) (MG/L)	--	Report	--
Nitrogen, Total (MG/L)	--	Report	--
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--
Nitrogen, Kjeldahl, Total (as N) (MG/L)	--	Report	--
Silver, Total Recoverable (UG/L)	--	Report	--
Iron, Total Recoverable (MG/L)	--	Report	--
Mercury, Total Recoverable (UG/L)	--	Report*	--
Aluminum, Total Recoverable (MG/L)	--	Report	--
Arsenic, Total Recoverable (UG/L)	--	Report	--

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Parameters	Effluent Limitations		
	Monthly Average	Daily Maximum	Daily Minimum
Chromium, Total Recoverable (UG/L)	--	Report	--
Nickel, Total Recoverable (UG/L)	--	Report	--
Selenium, Total Recoverable (UG/L)	--	Report	--
Thallium, Total Recoverable (UG/L)	--	Report	--
Cadmium, Total Recoverable (UG/L)	--	Report	--
Barium, Total Recoverable (MG/L)	--	Report	--
Copper, Total Recoverable (UG/L)	--	Report	--
Vanadium, Total Recoverable (UG/L)	--	Report**	--
Zinc, Total Recoverable (UG/L)	--	Report	--

* Sampling Frequency for Mercury is Monthly based on the presence of detected Mercury in 7 of 7 leachate samples, Table 2-4, Page 1, received by the Department in the October 9, 2008 information response. Frequency reduction may be requested in writing from the Department when supported by 12 effluent samples after the system is fully on line.

** Vanadium was reported in 3 of 7 leachate sample results as noted on page 2, Table 2-4 of the information response received 10/9/2008. However, there is no Ground Water standard for this parameter and sampling is set at quarterly for the treated effluent. The permittee may request the deletion of this parameter after 4 such sample events.

- b. Monitoring system D-002 is a series of sampling locations, which combine (1) Early warning monitoring wells (piezometers) sampling and (2) grab samples of standing surface waters in the wetland system when there is adequate water for legitimate sample collection.

The following sampling is required under the permit to test the standing water in the surface waters of the State in wetlands around the disposal location and to provide an assurance that the discharge of the treated effluent on the sprayfield does not impact the surface water quality. The five sampling locations (**WEN-01 to 05**) are denoted in DEP Exhibit Number 1.

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point *
pH (SU)	--	Report	--	every other month	Grab	
Solids, Total Suspended (MG/L)	--	Report	--	every other month	Grab	
Carbon, Total Organic (TOC) (MG/L)	--	Report	--	every other month	Grab	
Sodium, Total (as Na) (MG/L)	--	Report	--	every other month	Grab	
Chloride (as Cl) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Total (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Kjeldahl, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Silver, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	

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Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point *
Iron, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Mercury, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Aluminum, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Arsenic, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Chromium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Nickel, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Selenium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Thallium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Cadmium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Barium, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Copper, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Vanadium, Total Recoverable (UG/L)	--	Report**	--	every other month	Grab	
Zinc, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	

* Surface water sampling g locations WEN-01 through WEN-05, provided adequate water is available to take a representative sample.

- c. The following sampling in the Piezometers is required under the permit to test ground water in the surficial aquifer around the edges of the land application site just within the perimeter berm. The Piezometers shall have adequate depth to provide a representative sample of the ground water in the buffer areas. These will be designated sampling locations OTH-01 through OTH-06. **This testing will determine the potential impact of any contaminants moving laterally through the soils and provide an assurance that the discharge of the treated effluent on the sprayfield does not impact the surface water quality. They are used only as an early detection system.** The sampling locations are designated sampling locations OTH-01 through OTH-06 in DEP Exhibit Number 2.

These Piezometers shall be sampled twice before the land application system is placed in service and every other month thereafter. A minimum of 2 sets of samples shall be performed before the land application system is placed in service. Tests performed before the application site is placed in service shall be so denoted. The data so generated shall be considered baseline or background water quality in the surface water. These Piezometers shall continue to be sampled every other month thereafter until a total of 12 sets of data are completed. Either Piezometer OTH-03 or OTH-04 is also where the electronic sensor will be set at an elevation of 29.5 to turn off the application pumps and avoid such application when the water elevation in the ground water starts to elevate and reduce the dry root depth of 18 inches or less.

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Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point *
pH (SU)	--	Report	--	every other month	Grab	
Solids, Total Suspended (MG/L)	--	Report	--	every other month	Grab	
Carbon, Total Organic (TOC) (MG/L)	--	Report	--	every other month	Grab	
Sodium, Total (as Na) (MG/L)	--	Report	--	every other month	Grab	
Chloride (as Cl) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Total (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Nitrogen, Kjeldahl, Total (as N) (MG/L)	--	Report	--	every other month	Grab	
Silver, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Iron, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Mercury, Total Recoverable (UG/L)	--	Report*	--	every other month	Grab	
Aluminum, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Arsenic, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Chromium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Nickel, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Selenium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Thallium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Cadmium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Barium, Total Recoverable (MG/L)	--	Report	--	every other month	Grab	
Copper, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Vanadium, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	
Zinc, Total Recoverable (UG/L)	--	Report	--	every other month	Grab	

* Piezometer Sampling locations are designated as OTH-01 through OTH-06 on the monitoring report forms.

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3. BASIS FOR EFFLUENT LIMITS AND MONITORING REQUIREMENTS

The following table provides the basis for Part I. A. provisions.

The facility has provided reasonable assurance that the discharge will not adversely affect the designated use of receiving water. Available leachate data, as well as all other available data, treatment plant design and soils information have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards.

The following table provides the basis for Part I. C. provisions.

Land Application System G-002

Parameter	Limit	Statistical Basis	Rationale
Flow (MGD)	0.045 0.090	Monthly Average Daily Maximum	62-620 F.A.C. 62-620 F.A.C.
pH (SU)	9.5 6.0	Daily Maximum Daily Minimum	BPJ BPJ
Solids, Total Suspended (MG/L)	Report	Daily Maximum	BPJ
Carbon, Total Organic (TOC) (MG/L)	Report	Daily Maximum	62-620 F.A.C.
Sodium, Total (as Na) (MG/L)	Report	Daily Maximum	62-520 F.A.C.
Chloride (as Cl) (MG/L)	Report	Daily Maximum	62-520 F.A.C.
Nitrogen, Total (MG/L)	Report	Daily Maximum	BPJ
Nitrogen, Nitrate, Total (as N) (MG/L)	Report	Daily Maximum	62-520 F.A.C.
Nitrogen, Kjeldahl, Total (as N) (MG/L)	Report	Daily Maximum	BPJ
Silver, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Iron, Total Recoverable (MG/L)	Report	Daily Maximum	62-520 F.A.C.
Mercury, Total Recoverable (UG/L)	Report*	Daily Maximum	62-520 F.A.C.
Aluminum, Total Recoverable (MG/L)	Report	Daily Maximum	62-520 F.A.C.
Arsenic, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Chromium, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Nickel, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Selenium, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Thallium, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Cadmium, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Barium, Total Recoverable (MG/L)	Report	Daily Maximum	62-520 F.A.C.
Copper, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.
Vanadium, Total Recoverable (UG/L)	Report**	Daily Maximum	BPJ

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 FACILITY NAME: VCDSWM-Tomoka Farms Road Landfill Leachate System

Parameter	Limit	Statistical Basis	Rationale
Zinc, Total Recoverable (UG/L)	Report	Daily Maximum	62-520 F.A.C.

* Sampling Frequency for Mercury is Monthly based on the presence of detected Mercury in 7 of 7 leachate samples, Table 2-4, Page 1, received by the Department in the October 9, 2008 information response. Frequency reduction may be requested in writing from the Department when supported by 12 effluent samples after the system is fully on line.

** Vanadium was reported in 3 of 7 leachate sample results as noted on page 2, Table 2-4 of the information response received 10/9/2008. However, there is no Ground Water standard for this parameter and sampling is set at quarterly for the treated effluent. The permittee may request the deletion of this parameter after 4 such sample events.

Sampling parameters have been selected based on the information provided by the permittee of the water constituents in the leachate. Testing frequency has been based on the lack of any available effluent data, being a proposed facility and a comparison of that leachate data with the Ground Water quality standards. A series of Volatile organics were reported in this information. Upon consultation with John White of our DEP Hazardous Waste Program, it was decided that these constituents will be removed by the aeration process from their waste stream. Based on this assessment the Department will not require routine sampling for the Volatile organics. As an additional assurance, once the plant is operational, two special sampling events will be required on consecutive months just to certain that this evaluation is accurate. In data reported by the applicant, the data in Attachment D, Table 2-4, Page 2 shows that the leachate has the potential for spikes in 2-Butanone at a substantial concentration (2.6 mg/L). This chemical is a constituent in paint thinner and Mr. White indicated that Daytona Beach previously had a number of paint associated industries, potentially sending their materials to this landfill. See permit Condition number I.C.7. In addition, the 2-Butanone was found in one of five samples reported in the table noted above so only these two samples may be considered adequate for a reasonable assurance of compliance with regard to this parameter. It should be noted that 2-Butanone does not have a Primary or a Secondary drinking water standard. The parameter is being used as indicator only.

A primary concern regarding potential surface water impacts would be Nutrients. Permit conditions require that the total pounds of TN and TP being applied to the disposal area be calculated from the flow volume and the concentration. While this calculation requires the assumption that the concentration remains the same throughout the reporting period, this will allow a reasonable mass loading estimate. The permit also requires that the crop removed from the disposal area on a periodic basis have the amount of Nutrients estimated for comparison in a mass balance. The permittee has committed that there will be no additional nutrient load added to the disposal area by fertilization. The mass data will be submitted monthly for the effluent applied and a net summary provided annually with a calculated mass load of the crop when it is harvested from the site.

4. **GROUND WATER MONITORING REQUIREMENTS**

Ground water monitoring requirements have been established in accordance with Rule 62-522 F.A.C.

The existing Ground Water Monitoring Plan does not have an intermediate well, because it appeared that the environment would be better served with an additional compliance well rather than having an intermediate well.

Based on the collection of initial leachate characterization data as well as groundwater monitoring data for first eight (8) quarters at the sprayfield site, the parameter list mentioned above in Permit Condition III.B. 3(b) may be revised by adding or deleting appropriate parameters. This information may also be used to determine a need to add groundwater monitoring at the lined effluent storage pond, if warranted.

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The standard condition to abandon all monitoring wells and piezometers that will not be needed now or in the future has not been included because the Central District Ground Water Section prefers that wells and piezometers be abandoned on a case-by case basis.

The aforementioned water sampling requirements are based on the site-specific information provided in the application, Best Professional Judgment, past experience with the facility and with other facilities in the same industry. Compliance with ground water quality standards must be documented at the compliance well. A reasonable assurance of compliance at the limit of the zone of discharge is required in the permit.

Permit Conditions III. B. 11., 12., and the Certification Page requirement in III. B. 10., are based on best professional judgment of what DEP considers standard professional practice, such as reporting malfunctions to DEP. Malfunctions include mowing down of monitoring wells etc.

5. PERMIT SCHEDULES

This section is applicable for BMPs.

6. FDEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Eugene Elliott
Engineering Specialist IV
Department of Environmental Protection, Central District Office
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803
Telephone Number: (407) 893-3317
Fax Number: (407) 893-5633
(gene.elliott@dep.state.fl.us)

7. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available by writing FDEP or for public inspection during normal business hours at the location specified in item 11. Copies will be provided at a minimal charge per page.

Interested persons are invited to submit written comments regarding permit issuance on the draft permit limitations and conditions to the following address:

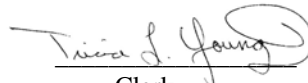
Department of Environmental Protection, Central District Office
Industrial Wastewater Permitting Program
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803
Attn.: Ali Kazi, P. E., Program Manager
407-893-3317
(ali.kazi@dep.state.fl.us)

8. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Complete Draft Permit Package	January 21, 2009
Complete Internal Review	January 23, 2009
Notice of Intent to Issue and Public Notice	January 24, 2009
Notice of Permit Issuance	February 10, 2009

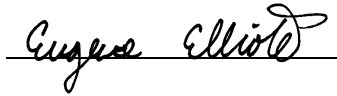
FILING AND ACKNOWLEDGMENT

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


Clerk April 15, 2009
Date

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this NOTICE OF PERMIT and all copies were e-mailed before the close of business on April 15, 2009 to the listed persons.



CCF/ee

Enclosure

cc: Steve Kintner, Director/ Volusia County Environmental Management Dept. (skintner@co.volusia.fl.us)
Gary Miller, Program Manager/Wastewater Compliance Enforcement Section/DEP/Orlando
Tom Lubozynski, Program Administrator/Waste Clean Up/DEP/Orlando
Richard D. Wilson, P.E./PRW Group, LLC/ (rwilson@wilschs.com)