

EXHIBIT 7

**Landfill Leachate Treatment
Permit
and
Leachate Chemical
Characteristics**



Florida Department of Environmental Protection

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

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

NOTICE OF PERMIT ISSUANCE

Sent by email to: rmontgomery@volusia.org

Regina Montgomery, Director Solid Waste Division
Volusia County Solid Waste Division
1990 Tomoka Farms Road
Port Orange, FL 32128

Volusia County - IW
Tomoka Farms Road Landfill Leachate Sprayfield

Enclosed is Permit Number FLA662356 to operate a domestic wastewater facility issued under Sections 403.087 and 403.0885 of the Florida Statutes.

Monitoring requirements under this permit are effective on June 1, 2019. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements.

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within **14** days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within **14** days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (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 must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Reggie Phillips
Environmental Administrator
Permitting and Waste Clean Up Section

RP/ee

Enclosures: Permit, DMR and SOB

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

David Smicherko, DEP, david.smicherko@dep.state.fl.us
Mary Ann Kraus, DEP, mary.kraus@dep.state.fl.us
Shabbir Rizvi, DEP, shabbir.rizvi@dep.state.fl.us
Sirena Davila, DEP sirena.davila@dep.state.fl.us
Gene Elliott, DEP, gene.elliott@dep.state.fl.us
Kevin Lee, P.E., Mead & Hunt Engineering, kevin.lee@meadhunt.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

October 22, 2018

Date



Florida Department of Environmental Protection

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

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMITTEE:
Volusia County Solid Waste Division

RESPONSIBLE OFFICIAL:

Regina Montgomery, Director
1990 Tomoka Farms Road
Port Orange, Florida 32128-3752
(386) 943-7889

PERMIT NUMBER: FLA662356
FILE NUMBER: FLA662356-005-IW8D
EFFECTIVE DATE: **April 14, 2019**
EXPIRATION DATE: **April 13, 2024**
001 permit issued April 15, 2009
002 revision issued February 1, 2011
003 revision issued September 11, 2011
004 renewal issued April 14, 2014

FACILITY:

Tomoka Farms Rd Landfill - Leachate Sprayfield
1990 Tomoka Farms Road
Port Orange, FL 32128-3752
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.). This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

FACILITY DESCRIPTION:

This is an existing industrial wastewater treatment and disposal system which treats the leachate from two sources (two wastestreams). These wastestreams are: (a). leachate from the existing landfill, (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 influent pond and the leachate recirculation system is a part of the DEP Solid Waste permit number 0078767-034-SO (expires September 24, 2024).

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 26 acre land application site or disposal at 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 blends the two waste streams 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 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

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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.

REUSE OR DISPOSAL:

Land Application G-002: An existing 0.0313 MGD Monthly Average Daily Flow permitted capacity land application system consisting of a 26 acre Spray Irrigation field located approximately at latitude 29°8' 1" N, longitude 81°6' 42" W.

PERMIT HISTORY:

The original -001 permit was issued to build a system, which would allow the County to stop hauling their leachate to their Domestic wastewater treatment facilities on April 15, 2009. The area around the application site is a wet land system and the -001 permit included 5 ambient locations out in that wetland where sampling locations denoted a D-002 were required. Sampling here was to determine if the application of the leachate in the disposal area would impact the wetlands.

Revision -002 was issued to correct minor clerical issues and make corrections to sampling provisions for consistency between permit DMR and SOB.

Revision -003 was made to address changes to the required sampling. Over time the data showed that surface water impacts were not being seen and this sampling at D-002 was waived.

Renewal -004 was issued April 14, 2014 for operations without any major changes or increased flows for a 5 year term.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in this Cover Sheet and Part I through Part IX on pages 1 through 17 of this permit.

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I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Land Application Systems

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge process wastewater to Land Application System G-002. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total through plant)	MGD	Max Max	0.045 0.090	Monthly Average Daily Maximum	Daily; 24 hours	Meter	FLW-01	
pH	s.u.	Max Min	9.5 6.0	Daily Maximum Daily Minimum	Weekly	Grab	EFF-01	
Solids, Total Suspended	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Carbon, Total Organic (TOC)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Sodium, Total Recoverable	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Chloride (as Cl)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Nitrogen, Total	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Nitrogen, Total (pounds total)*	lb/mth	Max	Report	Daily Maximum	Monthly	Calculated	EFF-01	
Nitrogen, Nitrate, Total (as N)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Phosphorus, Total (as P)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-01	
Phosphorus, Total (as P) (pounds total)	lb/mth	Max	Report	Daily Maximum	Monthly	Calculated	EFF-01	
Silver, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-01	
Iron, Total Recoverable	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-01	
Mercury, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-01	
Aluminum, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-01	
Arsenic, Total Recoverable	ug/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-01	
Chromium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-01	

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Nickel, Total Recoverable	ug/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-01	
Selenium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-01	
Thallium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-01	
Cadmium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-01	
Barium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-01	
Copper, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-01	
Vanadium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-01	
Zinc, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-01	
2-Butanone	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	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.

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2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
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.

B. 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 conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-600, 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 quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at <http://www.dep.state.fl.us/labs/library/index.htm>. 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 MDL 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 an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - c. If the MDLs 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 MDL shall be used.

When the analytical results are below method detection or practical quantitation 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.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. 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. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

2. The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. [62-620.320(6)]
3. Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit. 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 Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Submit by
Monthly	first day of month - last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 - June 30	April 28 July 28

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	July 1 - September 30 October 1 - December 31	October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 31	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee may submit either paper or electronic DMR forms. If submitting electronic DMR forms, the permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <http://www.fldepportal.com/go/>. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms.

If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Central District Office at the address specified in Permit Condition I.B.4. by the twenty-eighth (28th) of the month following the month of operation.

[62-620.610(18)]

Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Central District Office at the address specified below:

The permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <http://www.fldepportal.com/go/> unless the permittee has a waiver from the Department in accordance with 40 CFR 127.15. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation. *[62-620.610(18)][62-600.680(1)]*

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

Phone Number - (407)897-4100
[62-620.305]

4. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. *[62-620.305]*
5. If there is no discharge from the facility on a day when the facility would normally sample, the sample shall be collected on the day of the next discharge. *[62-620.320(6)]*

II. SLUDGE MANAGEMENT REQUIREMENTS

1. The method of sludge use or disposal by this facility is disposal in the landfill.
2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its sludges. *[62-620.320(6)]*
3. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. *[62-730]*

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III. GROUND WATER REQUIREMENTS

1. The permittee shall give at least 72-hours' notice to the Department's Central District Office, prior to the installation of any monitoring wells. [62-520.600(6)(h)]
2. Before construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location to properly determine monitoring well specifications such as well depth, screen interval, screen slot, and filter pack. [62-520.600(6)(g)]
3. Within 30 days after installation of a monitoring well, the permittee shall submit to the Department's Central District Office well completion reports and soil boring/lithologic logs on the attached DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. [62-520.600(6)(j) and .900(3)]
4. All piezometers and monitoring wells not part of the approved ground water monitoring plan shall be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., unless future use is intended. [62-532.500(5)]
5. For the G-002 land application system, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the application site and vertically to the base of the surficial aquifer. [62-520.200(26)] [62-520.465]
6. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. [62-520.400 and 62-520.420(4)]
7. If the concentration for any constituent listed in Permit Condition III.10 in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. [62-520.420(2)]
8. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the monitoring wells identified in Permit Condition III.9. below in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. [62-520.600]
9. The following monitoring wells shall be sampled for Land Application (Disposal) G-002 at Land Application Site SPF-1.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MWB-1L	SFL-1; Lower Surficial background well @ Sprayfield site	29°8' 13"	81°6' 32"	13	Surficial	Background	Existing
MWB-1U	SFU-1; Upper surficial background well @ Sprayfield site	29°8' 12"	81°6' 32"	30	Surficial	Background	Existing
MWC-2L	SFL-2; Lower Surficial Compliance well @ Sprayfield site	29°8' 10"	81°6' 52"	13	Surficial	Compliance	Existing
MWC-2U	SFU-2; Upper Surficial Compliance well @ Sprayfield site	29°8' 11"	81°6' 52"	30	Surficial	Compliance	Existing
MWC-3L	SFL-3; Lower Surficial Compliance well @ Sprayfield site	29°8' 3"	81°6' 48"	30	Surficial	Compliance	Existing
MWC-3U	SFU-3; Upper Surficial Compliance well @ Sprayfield site	29°8' 3"	81°6' 49"	13	Surficial	Compliance	Existing

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Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MWI-OTH-2R	An Intermediate well @ spary field	29°7' 55"	81°4' 30"	10	Surficial	Intermediate	Existing
MWI-OTH-3R	An Intermediate well @ spary field	29°7' 55"	81°4' 30"	10	Surficial	Intermediate	Existing
MWI-OTH-6R	An Intermediate well @ spary field	29°7' 55"	81°4' 30"	10	Surficial	Intermediate	Existing

[62-520.600]

10. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.9.

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Semi-Annually; twice per year
Specific Conductance	Report	umhos/cm	In Situ	Semi-Annually; twice per year
pH	6.5 - 8.5	s.u.	In Situ	Semi-Annually; twice per year
Oxygen, Dissolved (DO)	Report	mg/L	In Situ	Semi-Annually; twice per year
Color	Report	PCU	In Situ	Semi-Annually; twice per year
Turbidity	Report	NTU	In Situ	Semi-Annually; twice per year
Temperature (C), Water	Report	Deg C	In Situ	Semi-Annually; twice per year
Aluminum, Total Recoverable	0.2	mg/L	Grab	Semi-Annually; twice per year
Arsenic, Total Recoverable	0.010	mg/L	Grab	Semi-Annually; twice per year
Chloride (as Cl)	250	mg/L	Grab	Semi-Annually; twice per year
Chromium, Total Recoverable	0.1	mg/L	Grab	Semi-Annually; twice per year
Iron, Total Recoverable	0.3	mg/L	Grab	Semi-Annually; twice per year
Nickel, Total Recoverable	0.1	mg/L	Grab	Semi-Annually; twice per year
Nitrogen, Kjeldahl, Total (as N)	Report	mg/L	Grab	Semi-Annually; twice per year
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Semi-Annually; twice per year
Nitrogen, Total	Report	mg/L	Grab	Semi-Annually; twice per year
Nitrogen, Ammonia, Total (as N)	Report	mg/L	Grab	Semi-Annually; twice per year
Selenium, Total Recoverable	0.05	mg/L	Grab	Semi-Annually; twice per year
Sodium, Total Recoverable	160	mg/L	Grab	Semi-Annually; twice per year
Thallium, Total Recoverable	0.002	mg/L	Grab	Semi-Annually; twice per year
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Semi-Annually; twice per year

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[62-520.600(11)(b)]

11. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. *[62-520.600(11)(c)]*
12. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. *[62-160.210]*
13. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Central District Office as being more representative of ground water conditions. *[62-520.310(5)]*
14. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.B.3. *[62-520.600(11)(b)]*
15. If any monitoring well becomes inoperable or damaged to the extent that the sampling or well integrity may be affected, the permittee shall notify the Department's Central District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Central District Office before installation. *[62-520.600(6)(l)]*
16. The permittee shall sample the following monitoring well(s): for the primary and secondary drinking water parameters included in Rules 62-550.310 and 62-550.320, F.A.C., (except for asbestos and all parameters in Table 5 of Chapter 62-550, F.A.C., other than Di(2-ethylhexyl) adipate and Di(2-ethylhexyl) phthalate). Results of this sampling shall be submitted to the Department's Central District Office with the application for permit renewal. Sampling shall occur no sooner than 180 days before submittal of the renewal application. *[62-520.600(5)(b)]*

IV. ADDITIONAL LAND APPLICATION REQUIREMENTS

1. The maximum annual average loading rate to the Spray irrigation field shall be limited to .31 inches/week. The hydraulic loading rate shall not produce surface runoff or ponding of the applied reclaimed water. *[62-620.320(6)]*
2. Overflows from emergency discharge facilities on storage ponds shall be reported as abnormal events in accordance with Permit Condition IX.20. *[62-620.610(20)]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control. *[62-620.320(6)]*
2. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - 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 required by the permit for at least three years from the date the report was prepared;
 - 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;

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- d. A copy of the current permit;
- e. A copy of any required record drawings; and
- f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

[62-620.350]

VI. SCHEDULES

- 1. The following improvement actions shall be completed according to the following schedule. The Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
1. Continue implementing the existing BMP Plan	Effective date of permit

[62-620.320(6)]

- 2. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
 - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

[62-620.335(1)-(4)]

VII. BEST MANAGEMENT PRACTICES/STORMWATER POLLUTION PREVENTION PLANS

- 1. The permittee shall during the term of this permit operate the facility in accordance with the existing Best Management Practices (BMP) or in accordance with subsequent amendments to the Plan. The permittee shall also amend this Plan, to incorporate practices to achieve the objectives and specific requirements listed below. The permittee shall maintain the Plan at the facility and shall make the plan available to the Department upon request. The Plan shall be implemented in accordance with the schedule contained in Part VI of this permit. [62-620.100(3)(m)]
- 2. Through implementation of the Best Management Practices (BMP), the permittee shall prevent or minimize the generation and the potential for the release of pollutants from the facility to the waters of the State through normal operations and ancillary activities. [62-620.100(3)(m)]
- 3. The permittee shall develop and amend the BMP Plan consistent with the following objectives for the control of pollutants.
 - a. The number and quantity of pollutants and the toxicity of effluent generated, discharged or potentially discharged at the facility shall be minimized by the permittee to the extent feasible by managing each influent waste stream in the most appropriate manner.
 - b. Under the BMP Plan, and any Standard Operating Procedures (SOPs) included in the Plan, the permittee shall ensure proper operation and maintenance of the treatment facility.
 - c. The permittee shall establish specific objectives for the control of pollutants by conducting the following evaluations.

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- (1) Each facility component or system shall be examined for its waste minimization opportunities and its potential for causing a release of significant amounts of pollutants to waters of the United States due to equipment failure, improper operation, and natural phenomena such as rain or adverse weather, etc. The examination shall include all normal operations and ancillary activities including but not limited to material storage areas, plant site runoff, in-plant transfer, process and material handling areas, loading or unloading operations, spillage or leaks, sludge and waste disposal, or drainage from raw material storage, as applicable.
- (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g., precipitation), or other circumstances to result in significant amounts of pollutants reaching surface waters, the program 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.

[62-620.100(3)(m)]

4. The BMP Plan shall be consistent with the objectives in Part 3 above and the general guidance contained in the publication entitled Guidance Manual for Developing Best Management Practices (BMPs) (USEPA, 1993) or any subsequent revisions to the guidance document. The BMP Plan shall:
 - a. Be documented in narrative form, shall include any necessary plot plans, drawings or maps, and shall be developed in accordance with good engineering practices. The BMP Plan shall be organized and written with the following structure:
 - (1) Name and location of the facility.
 - (2) Statement of BMP Plan policy.
 - (3) Structure, functions, and procedures of the BMP Plan committee.
 - (4) Specific management practices and standard operating procedures to achieve the above objectives, including, but not limited to, the following:
 - (a) modification of equipment, facilities, technology, processes, and procedures,
 - (b) reformulation or redesign of products,
 - (c) substitution of materials, and
 - (d) improvement in management, inventory control, materials handling or general operational phases of the facility.
 - (5) Risk identification and assessment.
 - (6) Reporting of BMP Plan incidents.
 - (7) Materials compatibility.
 - (8) Good housekeeping.
 - (9) Preventative maintenance.
 - (10) Inspections and records.
 - (11) Security.
 - (12) Employee training.
 - b. Establish specific best management practices to meet the objectives identified in Part 3 of this section, addressing each component or system capable of generating or causing a release of significant amounts of pollutants, and identifying specific preventative or remedial measures to be implemented.

[62-620.100(3)(m)]

5. The permittee is encouraged, but not required, to conduct a waste minimization assessment (WMA) for this facility to determine actions that could be taken to reduce waste loadings and chemical losses to all wastewater and/or storm water streams.

If the permittee elects to develop and implement a WMA, information on plan components can be obtained from the Department's Industrial Wastewater website, or from:

Florida Department of Environmental Protection
Industrial Wastewater Section, Mail Station 3545
Bob Martinez Center
2600 Blair Stone Road

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Tallahassee, Florida 32399-2400
(850) 245-8589
(850) 245-8669 - (Fax)

[62-620.100(3)(m)]

6. The BMP Plan shall be signed by the permittee or their duly authorized representative in accordance with Rule 62-620.305(2)(a) and (b), F.A.C. The Plan shall be reviewed by appropriate facility staff and management. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of the Plan shall be signed and sealed by the professional(s) who prepared them.

The BMP Plan shall contain a written statement from corporate or facility management indicating management's commitment to the goals of the BMP Plan program. Such statements shall be publicized or made known to all facility employees. Management shall also provide training for the individuals responsible for implementing the BMP Plan. *[62-620.100(3)(m)]*

7. The permittee shall maintain a copy of the BMP Plan at the facility and shall make the plan available to the Department upon request. All offices of the permittee which are required to maintain a copy of the NPDES permit shall also maintain a copy of the BMP Plan. *[62-620.100(3)(m)]*
8. If following review by the Department, the BMP Plan is determined insufficient, the permittee will be notified that the Plan does not meet one or more of the minimum requirements of this Part. Upon such notification from the Department, the permittee shall amend the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise provided by the Department, the permittee shall have 30 days after such notification to make the changes necessary.

The permittee shall amend the BMP Plan whenever there is a change in the facility or in the operation of the facility which materially increases the generation of pollutants or their release or potential release to the receiving waters. The permittee shall also amend the Plan, as appropriate, when plant operations covered by the BMP Plan change. Any such changes to the Plan shall be consistent with the objectives and specific requirements listed above. All changes in the BMP Plan shall be reported to the Department in writing. *[62-620.100(3)(m)]*

9. At any time, if the BMP Plan proves to be ineffective in achieving the general objective of preventing and minimizing the generation of pollutants and their release and potential release to the receiving waters and/or the specific requirements above, the permit and/or the BMP Plan shall be subject to modification to incorporate revised BMP Plan requirements. *[62-620.100(3)(m)]*

VIII. OTHER SPECIFIC CONDITIONS

1. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
2. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, or wastewater sludges. The Permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
3. Reopener Clause
 - a. 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.
 - b. Contains different conditions or is otherwise more stringent than any condition in the permit/or;

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- c. Controls any pollutant not addressed in the permit.
- d. The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.
- e. 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.

IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*
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(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 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)]*
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:

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- 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)]

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)]*
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 or activity 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, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., 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)]*
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;

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- b. The period of the anticipated noncompliance, including dates and times; and
- 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 and Chapters 62-160, 62-600, and 62-610, 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), or as specified elsewhere in the permit.
- b. If the permittee monitors any contaminant 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.
- d. 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.
- e. 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.
- f. 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)]

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'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.

- 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 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, and
 - (4) Any unauthorized discharge to surface or ground waters.
- b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to 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 STATE WATCH OFFICE TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24

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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 Watch Office:

- (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 the 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)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 17, 18 or 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20 of this permit. *[62-620.610(21)]*

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. 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 preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX. 22. c. of this permit.
- c. 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 Permit Condition IX. 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.
- d. 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 Permit Condition IX. 22. b.(1) through (3) of this permit.
- e. 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 provisions of Permit Condition IX. 22. b. through d. of this permit.

[62-620.610(22)]

23. Upset Provisions.

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- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. 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 Permit Condition IX.5. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. 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



Reggie Phillips
Environmental Administrator
Permitting and Waste Clean Up Section

PERMIT ISSUANCE DATE: October 22, 2018

Attachment(s):
Discharge Monitoring Report
Monitor Well Completion Report

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME:	Volusia County Solid Waste Division	PERMIT NUMBER:	FLA662356-005-IW8D	DMR Effective Date:	June 1, 2019
MAILING ADDRESS:	1990 Tomoka Farms Road Port Orange, Florida 32128-3752	LIMIT:	Final	REPORT FREQUENCY:	Monthly
FACILITY:	Tomoka Farms Rd Landfill Leachate Sprayfield	CLASS SIZE:	N/A	PROGRAM:	Industrial
LOCATION:	1990 Tomoka Farms Road Port Orange, FL 32128-3752	MONITORING GROUP NUMBER:	G-002		
		MONITORING GROUP DESCRIPTION:	Sprayfield Land Application System		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Volusia	MONITORING PERIOD	From: _____	To: _____	
OFFICE:	Central District				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Total through plant)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-01	Permit Requirement	0.090 (Day. Max.)	0.045 (Mo. Avg.)	MGD						Daily; 24 hours	Meter
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-01	Permit Requirement				6.0 (Day. Min.)	9.5 (Day. Max.)	s.u.			Weekly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day. Max.)	mg/L			Monthly	Grab
Carbon, Total Organic (TOC)	Sample Measurement										
PARM Code 00680 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day. Max.)	mg/L			Monthly	Grab
Sodium, Total Recoverable	Sample Measurement										
PARM Code 00923 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day. Max.)	mg/L			Monthly	Grab
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day. Max.)	mg/L			Monthly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tomoka Farms Rd Landfill Leachate Sprayfield

MONITORING GROUP NUMBER: G-002

PERMIT NUMBER: FLA662356-005-IW8D

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Total	Sample Measurement							
PARM Code 00600 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	mg/L		Monthly	Grab
Nitrogen, Total (pounds total)	Sample Measurement							
PARM Code 00600 P Mon. Site No. EFF-01	Permit Requirement	Report (Day. Max.)	lb/mth				Monthly	Calculated
Nitrogen, Nitrate, Total (as N)	Sample Measurement							
PARM Code 00620 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	mg/L		Monthly	Grab
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement							
PARM Code 00625 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement							
PARM Code 00665 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	mg/L		Monthly	Grab
Phosphorus, Total (as P) (pounds total)	Sample Measurement							
PARM Code 00665 P Mon. Site No. EFF-01	Permit Requirement	Report (Day. Max.)	lb/mth				Monthly	Calculated
	Sample Measurement							
	Permit Requirement							
	Sample Measurement							
	Permit Requirement							
	Sample Measurement							
	Permit Requirement							

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME:	Volusia County Solid Waste Division	PERMIT NUMBER:	FLA662356-005-IW8D
MAILING ADDRESS:	1990 Tomoka Farms Rd Port Orange, Florida 32128-3752	LIMIT:	Final
		CLASS SIZE:	N/A
FACILITY:	Tomoka Farms Rd Landfill Leachate Sprayfield	MONITORING GROUP NUMBER:	G-002
LOCATION:	1990 Tomoka Farms Rd Port Orange, FL 32128-3752	MONITORING GROUP DESCRIPTION:	Sprayfield Land Application System
		RE-SUBMITTED DMR:	<input type="checkbox"/>
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>
COUNTY:	Volusia	MONITORING PERIOD	From: _____ To: _____
OFFICE:	Central District		

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Iron, Total Recoverable	Sample Measurement							
PARM Code 00980 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	mg/L		Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement							
PARM Code 00978 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement							
PARM Code 01118 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement							
PARM Code 01074 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement							
PARM Code 00981 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Quarterly	Grab
Thallium, Total Recoverable	Sample Measurement							
PARM Code 00982 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Quarterly	Grab

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tomoka Farms Rd Landfill Leachate Sprayfield

MONITORING GROUP NUMBER: G-002

PERMIT NUMBER: FLA662356-005-IW8D

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Barium, Total Recoverable	Sample Measurement										
PARM Code 01009 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day. Max.)	ug/L			Quarterly	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
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	Permit Requirement										

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME:	Volusia County Solid Waste Division	PERMIT NUMBER:	FLA662356-005-IW8D
MAILING ADDRESS:	1990 Tomoka Farms Rd Port Orange, Florida 32128-3752	LIMIT:	Final
		CLASS SIZE:	N/A
FACILITY:	Tomoka Farms Rd Landfill Leachate Sprayfield	MONITORING GROUP NUMBER:	G-002
LOCATION:	1990 Tomoka Farms Rd Port Orange, FL 32128-3752	MONITORING GROUP DESCRIPTION:	Sprayfield Land Application System
		RE-SUBMITTED DMR:	<input type="checkbox"/>
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>
COUNTY:	Volusia	MONITORING PERIOD	From: _____ To: _____
OFFICE:	Central District		

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable	Sample Measurement							
PARM Code 01079 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Semi-Annually; twice per year	Grab
Mercury, Total Recoverable	Sample Measurement							
PARM Code 71901 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Semi-Annually; twice per year	Grab
Aluminum, Total Recoverable	Sample Measurement							
PARM Code 01104 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Semi-Annually; twice per year	Grab
Cadmium, Total Recoverable	Sample Measurement							
PARM Code 01113 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Semi-Annually; twice per year	Grab
Copper, Total Recoverable	Sample Measurement							
PARM Code 01119 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Semi-Annually; twice per year	Grab
Vanadium, Total Recoverable	Sample Measurement							
PARM Code 01128 1 Mon. Site No. EFF-01	Permit Requirement			Report (Day. Max.)	ug/L		Semi-Annually; twice per year	Grab

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tomoka Farms Rd Landfill Leachate Sprayfield

MONITORING GROUP NUMBER: G-002

PERMIT NUMBER: FLA662356-005-IW8D

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day. Max.)	ug/L			Semi-Annually; twice per year	Grab
2-Butanone	Sample Measurement										
PARM Code 78356 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day. Max.)	ug/L			Semi-Annually; twice per year	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
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	Sample Measurement										
	Permit Requirement										

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FLA662356-005-IW8D
From: _____ To: _____

Facility: Tomoka Farms Rd Landfill Leachate Sprayfield

Code	Carbon, Total Organic (TOC) mg/L	Chloride (as Cl) mg/L	Nitrogen, Kjeldahl, Total (as N) mg/L	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Sodium, Total Recoverable mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (Total through plant) MGD
Mon. Site	00680 EFF-01	00940 EFF-01	00625 EFF-01	00620 EFF-01	00600 EFF-01	00665 EFF-01	00923 EFF-01	00530 EFF-01	00400 EFF-01	50050 FLW-01
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30										
31										
Total										
Mo. Avg.										

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: _____

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWB-1L
 Well Type: Background
 Description: SFL-1; Lower Surficial background well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		Report	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		Report	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		Report	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWB-1L
 Well Type: Background
 Description: SFL-1; Lower Surficial background well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		Report	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWB-1U
 Well Type: Background
 Description: SFU-1; Upper surficial background well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		Report	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		Report	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		Report	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWB-1U
 Well Type: Background
 Description: SFU-1; Upper surficial background well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		Report	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-2L
 Well Type: Compliance
 Description: SFL-2; Lower Surficial Compliance well @
 Sprayfield site

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		6.5 - 8.5	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		0.2	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		250	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		0.3	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Semi-Annually; twice per year				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-2L
 Well Type: Compliance
 Description: SFL-2; Lower Surficial Compliance well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		0.05	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		0.002	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-2U
 Well Type: Compliance
 Description: SFU-2; Upper Surficial Compliance well @
 Sprayfield site

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		6.5 - 8.5	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		0.2	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		250	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		0.3	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Semi-Annually; twice per year				
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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-2U
 Well Type: Compliance
 Description: SFU-2; Upper Surficial Compliance well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		0.05	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		0.002	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-3L
 Well Type: Compliance
 Description: SFL-3; Lower Surficial Compliance well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		6.5 - 8.5	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		0.2	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		250	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		0.3	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Semi-Annually; twice per year				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-3L
 Well Type: Compliance
 Description: SFL-3; Lower Surficial Compliance well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		0.05	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		0.002	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-3U
 Well Type: Compliance
 Description: SFU-3; Upper Surficial Compliance well @
 Sprayfield site

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		6.5 - 8.5	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		0.2	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		250	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		0.3	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Semi-Annually; twice per year				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWC-3U
 Well Type: Compliance
 Description: SFU-3; Upper Surficial Compliance well @ Sprayfield site
 Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		0.05	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		0.002	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWI-OTH-2R
 Well Type: Intermediate
 Description: An Intermediate well
 @ spary field

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		Report	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		Report	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		Report	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWI-OTH-2R
 Well Type: Intermediate
 Description: An Intermediate well @ spary field

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		Report	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWI-OTH-3R
 Well Type: Intermediate
 Description: An Intermediate well
 @ spary field

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		Report	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		Report	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		Report	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWI-OTH-3R
 Well Type: Intermediate
 Description: An Intermediate well @ spary field

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		Report	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWI-OTH-6R
 Well Type: Intermediate
 Description: An Intermediate well
 @ spary field

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-Annually; twice per year				
Specific Conductance	00095		Report	umhos/cm	In Situ	Semi-Annually; twice per year				
pH	00400		Report	s.u.	In Situ	Semi-Annually; twice per year				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Semi-Annually; twice per year				
Color	00080		Report	PCU	In Situ	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	In Situ	Semi-Annually; twice per year				
Temperature (C), Water	00010		Report	Deg C	In Situ	Semi-Annually; twice per year				
Aluminum, Total Recoverable	01104		Report	mg/L	Grab	Semi-Annually; twice per year				
Arsenic, Total Recoverable	00978		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Chromium, Total Recoverable	01118		Report	mg/L	Grab	Semi-Annually; twice per year				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Semi-Annually; twice per year				
Nickel, Total Recoverable	01074		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Kjeldahl, Total (as N)	00625		Report	mg/L	Grab	Semi-Annually; twice per year				

Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Tomoka Farms Rd Landfill Leachate Sprayfield
 Permit Number: FLA662356-005-IW8D
 County: Volusia

Monitoring Well ID: MWI-OTH-6R
 Well Type: Intermediate
 Description: An Intermediate well @ spary field

Report Frequency: Semi-annually
 Program: Industrial

Office: Central District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nitrogen, Total	00600		Report	mg/L	Grab	Semi-Annually; twice per year				
Nitrogen, Ammonia, Total (as N)	00610		Report	mg/L	Grab	Semi-Annually; twice per year				
Selenium, Total Recoverable	00981		Report	mg/L	Grab	Semi-Annually; twice per year				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Semi-Annually; twice per year				
Thallium, Total Recoverable	00982		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign (" $<$ ") followed by the laboratory's MDL value, e.g. <0.001 . A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

**STATEMENT OF BASIS
FOR
STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FLA662356-005

FACILITY NAME: Tomoka Farms Road Landfill Leachate System

FACILITY LOCATION: 1990 Tomoka Farms Road, Port Orange, FL 32128-3752
Volusia County

NAME OF PERMITTEE: Volusia County Solid Waste Division

PERMIT WRITER: E. Elliott, Engineer IV

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FLA662356-005-IW8D

Application Submittal Date: October 15, 2018

The new-005 permit will be effective on April 14, 2019. The various applications -002.-003, and -004 have not included any significant increases in flows or changes to treatment.

b. Type of Facility

This is an existing industrial wastewater treatment and disposal system which treats the leachate from two sources (two wastestreams). These wastestreams are: (a). leachate from the existing landfill, (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 influent pond and the leachate recirculation system is a part of the DEP Solid Waste permit number 0078767-020-S0-01. 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 26 acre land application site or disposal at 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.

SIC Code: 4952 - Sewage Treatment Facilities

c. Facility Capacity

Existing Permitted Capacity:	0.045 mgd Monthly Average Daily Flow
Proposed Increase in Permitted Capacity:	0.0 mgd Monthly Average Daily Flow
Proposed Total Permitted Capacity:	0.045 mgd Monthly Average Daily Flow

d. Description of Wastewater Treatment

The treatment system blends the two waste streams 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 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.

e. Description of Effluent Disposal and Land Application Sites (as reported by applicant)

An existing 0.0313 MGD Monthly Average Daily Flow permitted capacity land application system consisting of a 26 acre Spray Irrigation field located approximately at latitude 29°8' 1" N, longitude 81°6' 42" W.

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not discharge to surface waters.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to discharge process wastewater to Land Application System G-002, Sprayfield, based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (Total through plant)	MGD	Max	0.045	Monthly Average	62-620 F.A.C.
		Max	0.090	Daily Maximum	62-620 F.A.C.
pH	s.u.	Max	9.5	Daily Maximum	BPJ
		Min	6.0	Daily Minimum	BPJ
Solids, Total Suspended	mg/L	Max	Report	Daily Maximum	62-520, FAC
Carbon, Total Organic (TOC)	mg/L	Max	Report	Daily Maximum	62-620, FAC
Sodium, Total Recoverable	mg/L	Max	Report	Daily Maximum	62-520, FAC
Chloride (as Cl)	mg/L	Max	Report	Daily Maximum	62-520, FAC
Nitrogen, Total	mg/L	Max	Report	Daily Maximum	62-4.070 FAC (BPJ)
Nitrogen, Total (pounds total)	lb/mth	Max	Report	Daily Maximum	62-4.070 FAC (BPJ)
Nitrogen, Nitrate, Total (as N)	mg/L	Max	Report	Daily Maximum	62-520, FAC
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Daily Maximum	62-4.070 FAC (BPJ)
Phosphorus, Total (as P)	mg/L	Max	Report	Daily Maximum	62-4.070 FAC (BPJ)
Phosphorus, Total (as P) (pounds total)	lb/mth	Max	Report	Daily Maximum	62-4.070 FAC (BPJ)

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Silver, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Iron, Total Recoverable	mg/L	Max	Report	Daily Maximum	62-520, FAC
Mercury, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Aluminum, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Arsenic, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Chromium, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Nickel, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Selenium, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Thallium, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Cadmium, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Barium, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Copper, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Vanadium, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
Zinc, Total Recoverable	ug/L	Max	Report	Daily Maximum	62-520, FAC
2-Butanone	ug/L	Max	Report	Daily Maximum	62-520, FAC

4. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FLA662356-005-IW8D expires on April 13, 2024. Based on the application and sampling results that were provided, the Department has reduced effluent testing frequency to semiannually during the 004 permit cycle for a number of parameters as requested by the applicant with the exception of Arsenic, which was not reduced and Iron, which was reduced to quarterly.

5. INDUSTRIAL SLUDGE MANAGEMENT REQUIREMENTS

1. The method of sludge use or disposal by this facility is disposal in the landfill.
2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its sludges. [62-620.320(6)]
3. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. [62-730]

6. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapter 62-520, F.A.C.

7. PERMIT SCHEDULES

A schedule is not included in the wastewater permit.

8. BEST MANAGEMENT PRACTICES/STORMWATER POLLUTION PREVENTION PLANS

As stated in Section VII of the permit, a Best Management Practices (BMP) Plan is required for the facility, pursuant to Rule 62-620.100(m), F.A.C., and 40 CFR Part 122.44(k). The plan provides a facility-specific approach for the minimizing of pollutant discharge from ancillary activities.

9. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This permit is not accompanied by an AO, and the permittee has not entered into a CO with the Department that affects this permit.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 13. Copies will be provided at a minimal charge per page.

12. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Permit Issuance

October 22, 2018

13. DEP CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Gene Elliott, Permitting Engineer
Gene.elliott@dep.state.fl.us
Central District Office

3319 Maguire Blvd, Suite 232
Orlando, FL 32803-3767

Telephone No.: 407-897-4151

Leachate Data

September 2017 Sampling

		Conventional Pollutants								
		Leachate			Equalization Effluent			Final Effluent		
Parameter	Unit	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum
Flow	mgd	0.020	0.008	0.025	0.020	0.008	0.025			
Temperature	°F	80.30	76.00	83.00	80.30	76.00	83.00			
TDS	mg/L	5576.00	4700.00	6040.00	4525.00	2170.00	5830.00	4321.25	3220.00	4810.00
VSS	mg/L	448.50	149.00	920.00	849.98	58.80	1340.00	215.06	17.50	1240.00
Apparent Color	Color Units	5325.00	3500.00	8750.00	4950.00	2000.00	10000.00	4625.00	2250.00	7000.00
pH	SU	8.25	8.20	8.30	8.07	7.90	8.30	7.79	7.60	8.00
Alkalinity, Total as CaCO3	mg/L	2208.00	1120.00	2500.00	1357.00	1140.00	2460.00	966.50	850.00	1100.00
Specific Conductance @ 25C	Umhos/cm	8832.00	6810.00	9450.00	7049.00	6640.00	9270.00	6638.75	6110.00	7010.00
TSS	mg/L	894.70	168.00	2880.00	1064.10	111.00	1640.00	308.13	22.00	1810.00
CBOD, 5 day	mg/L	260.30	60.00	412.00	102.81	50.10	374.00	< 88.88	70.80	99.00
LAS Molecular Weight	g/mol	1504.00	320.00	8000.00	1472.00	320.00	8000.00	186.67	80.00	320.00
MBAS, Calculated as LAS	mg/L	< 1.65	0.50	4.50	< 1.46	0.50	3.50	< 0.41	0.10	1.90
Total Nitrogen	mg/L	327.80	167.00	403.00	291.00	110.00	1190.00	143.60	52.80	183.00
Chloride	mg/L	1339.00	1140.00	1510.00	1231.00	1130.00	1360.00	1158.13	985.00	1300.00
Fluoride	mg/L	< 1.26	0.72	3.40	< 0.81	0.44	1.70	< 0.71	0.44	1.70
Sulfate	mg/L	< 51.24	25.00	125.00	< 56.64	36.60	125.00	97.49	73.70	135.00
Ammonia Nitrogen	mg/L	160.81	0.46	275.00	< 28.78	0.02	270.00	15.89	1.70	45.50
TKN	mg/L	319.79	90.90	403.00	240.35	69.90	1110.00	69.44	42.30	99.60
Nitrate Nitrogen	mg/L	< 8.19	0.12	75.80	48.82	0.75	81.30	64.20	5.20	89.20
Nitrite Nitrogen	mg/L	0.73	0.28	1.50	2.58	0.65	4.90	10.08	0.06	36.10
Nitrogen, NO2 plus NO3	mg/L	< 8.28	0.16	75.80	51.29	0.99	83.60	74.25	5.50	120.00
Orthophosphate as P	mg/L	0.72	0.01	5.50	2.56	0.24	5.60	1.99	1.00	2.70
Phosphorus, Total (as P)	mg/L	3.58	1.90	11.30	33.61	2.90	199.00	5.23	3.70	9.30
COD	mg/L	2666.00	1820.00	3600.00	2371.00	1470.00	3340.00	1136.13	886.00	1490.00
TOC	mg/L	620.17	0.50	982.00	329.83	24.30	460.00	363.63	284.00	413.00
Phenolics, Total Recoverable	mg/L	0.12	0.09	0.29	< 0.01	0.01	0.02	0.05	0.01	0.09
Oil and Grease	mg/L	< 1.25	1.10	2.10	< 1.24	1.10	1.70	< 1.10	1.10	1.10
Fecal Coliforms	CFU/100 mL	< 230	3	1130	< 252	2	750	263	1	650

		Metals								
		Leachate			Equalization Effluent			Final Effluent		
Parameter	ug/L	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum
Aluminum	ug/L	3438.00	2600.00	4030.00	5008.00	1790.00	10800.00	1732.50	1090.00	3230.00
Arsenic	ug/L	144.50	109.00	191.00	124.45	62.90	154.00	53.29	32.60	64.20
Barium	ug/L	89.00	61.50	189.00	143.87	38.60	329.00	45.50	22.50	83.20
Beryllium	ug/L	< 2.75	0.50	5.00	< 3.20	0.50	5.00	< 1.88	0.50	5.00
Boron	ug/L	5435.00	4320.00	6000.00	4676.00	2890.00	5970.00	3968.75	3630.00	4180.00
Cadmium	ug/L	< 2.75	0.50	5.00	< 3.20	0.50	5.00	< 1.88	0.50	5.00
Chromium	ug/L	133.53	79.90	171.00	132.98	76.10	226.00	77.58	61.60	97.40
Cobalt	ug/L	< 33.73	13.60	50.00	< 35.89	13.10	50.00	< 23.15	14.20	50.00
Copper	ug/L	26.12	2.50	100.00	112.28	45.50	286.00	51.78	26.50	87.40
Iron	ug/L	9861.00	3640.00	25300.00	8356.00	1680.00	23900.00	8442.50	4700.00	16400.00
Lead	ug/L	< 27.66	5.00	50.00	< 33.96	5.00	56.30	< 19.11	5.00	50.00
Manganese	ug/L	179.54	28.60	696.00	200.62	25.00	467.00	132.09	55.20	256.00
Nickel	ug/L	96.41	70.00	114.00	89.02	66.30	117.00	77.74	74.60	82.50
Selenium	ug/L	< 45.33	7.50	75.00	< 52.50	7.50	75.00	< 42.33	7.50	75.00
Silica	ug/L	43290	38500	45700	41700	23400	52700	31513	28100	34700
Silver	ug/L	< 17.25	2.50	50.00	< 17.00	2.50	25.00	< 9.38	2.50	25.00
Sodium	mg/L	1477.00	1300.00	1710.00	1204.10	711.00	1510.00	1050.88	257.00	1290.00
Vanadium	ug/L	< 38.97	24.00	50.00	< 39.88	22.20	50.00	< 22.15	13.30	50.00
Zinc	ug/L	124.60	30.00	314.00	365.30	110.00	682.00	183.25	125.00	273.00
Silica, Dissolved	ug/L	42110	36600	48500	39000	32200	45900	23733	6770	34900
Thallium	ug/L	< 3.25	0.50	5.00	< 3.70	0.50	5.50	< 1.44	0.50	2.50
Mercury	ug/L	< 0.24	0.10	0.74	< 0.25	0.10	0.70	< 0.59	0.20	3.20

		Semivolatile Organics									
		Leachate			Equalization Effluent			Final Effluent			
Parameter	ug/L	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	
Acenaphthene	ug/L	< 20.14	0.81	33.90	< 7.94	0.81	33.90	< 16.00	16.00	16.00	
Acenaphthylene	ug/L	< 17.99	0.89	29.80	< 7.27	0.90	29.80	< 14.80	14.80	14.80	
Aniline	ug/L	< 19.26	1.90	30.60	< 8.25	1.90	30.60	< 12.30	12.30	12.30	
Anthracene	ug/L	< 12.85	0.56	20.20	< 5.57	0.57	20.20	< 17.10	17.10	17.10	
Benzidine	mg/L	< 4.11	0.72	7.50	< 4.07	0.73	7.40	< 0.00	0.00	0.00	
Benzo(a)anthracene	ug/L	< 9.74	0.59	21.10	< 4.90	0.59	21.10	< 21.10	21.10	21.10	
Benzo(a)pyrene	ug/L	< 9.68	0.54	22.10	< 4.93	0.55	22.10	< 22.10	22.10	22.10	
Benzo(b)fluoranthene	ug/L	< 10.45	0.58	21.90	< 5.21	0.59	21.90	< 21.90	21.90	21.90	
Benzo(g,h,i)perylene	ug/L	< 12.21	0.64	20.80	< 5.69	0.64	20.80	< 20.80	20.80	20.80	
Benzo(k)fluoranthene	ug/L	< 11.99	0.48	19.90	< 5.43	0.48	19.90	< 19.90	19.90	19.90	
Benzoic Acid	ug/L	< 118.71	17.30	173.00	< 40.86	17.30	173.00	< 50.10	50.10	50.10	
Benzyl alcohol	ug/L	< 40.20	0.59	70.10	< 14.96	0.59	70.10	< 30.80	30.80	30.80	
4-Bromophenylphenyl ether	ug/L	< 15.99	0.63	26.50	< 6.47	0.63	26.50	< 14.90	14.90	14.90	
Butylbenzylphthalate	ug/L	< 10.22	0.68	24.90	< 5.38	0.68	24.90	< 24.90	24.90	24.90	
4-Chloro-3-methylphenol	ug/L	< 27.42	0.58	46.00	< 10.86	0.59	46.00	< 28.40	28.40	28.40	
4-Chloroaniline	ug/L	< 39.30	1.10	67.70	< 14.94	1.10	67.70	< 28.10	28.10	28.10	
bis(2-Chloroethoxy)methane	ug/L	< 20.26	2.80	29.80	< 9.53	2.80	29.80	< 16.20	16.20	16.20	
bis(2-Chloroethyl) ether	ug/L	< 18.48	0.70	30.70	< 7.43	0.71	30.70	< 17.10	17.10	17.10	
2-Chloronaphthalene	ug/L	< 17.77	0.75	29.40	< 7.16	0.76	29.40	< 16.30	16.30	16.30	
2-Chlorophenol	ug/L	< 17.31	0.64	29.00	< 6.87	0.64	29.00	< 15.10	15.10	15.10	
4-Chlorophenylphenyl ether	ug/L	< 17.20	0.59	28.80	< 6.84	0.59	28.80	< 15.50	15.50	15.50	
Chrysene	ug/L	< 9.10	0.35	20.90	< 4.54	0.35	20.90	< 20.90	20.90	20.90	
Dibenz(a,h)anthracene	ug/L	< 12.60	0.61	20.30	< 5.76	0.61	20.30	< 20.30	20.30	20.30	
Dibenzofuran	ug/L	< 19.92	0.63	33.70	< 7.80	0.63	33.70	< 16.80	16.80	16.80	
1,2-Dichlorobenzene	ug/L	< 19.01	0.64	32.30	< 7.37	0.64	32.30	< 15.00	15.00	15.00	
1,3-Dichlorobenzene	ug/L	< 18.83	0.71	32.00	< 7.30	0.72	32.00	< 13.80	13.80	13.80	
1,4-Dichlorobenzene	ug/L	< 15.52	0.72	25.60	< 6.37	0.73	25.60	< 13.80	13.80	13.80	
3,3'-Dichlorobenzidine	ug/L	< 18.91	0.65	38.60	< 9.03	0.65	38.60	< 38.60	38.60	38.60	
2,4-Dichlorophenol	ug/L	< 16.33	0.53	27.30	< 6.49	0.53	27.30	< 15.50	15.50	15.50	
Diethylphthalate	ug/L	< 12.56	0.48	20.00	< 5.36	0.48	20.00	< 16.20	16.20	16.20	
2,4-Dimethylphenol	ug/L	< 13.18	1.60	19.00	< 6.33	1.50	19.00	< 16.10	16.10	16.10	
Dimethylphthalate	ug/L	< 14.15	0.60	23.20	< 5.79	0.60	23.20	< 14.10	14.10	14.10	
Di-n-butylphthalate	ug/L	< 9.06	1.20	19.80	< 4.45	0.39	19.80	< 19.80	19.80	19.80	
4,6-Dinitro-2-methylphenol	ug/L	< 26.28	1.20	43.50	< 10.64	1.20	43.50	< 22.50	22.50	22.50	

		Semivolatile Organics								
		Leachate			Equalization Effluent			Final Effluent		
Parameter	ug/L	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum
2,4-Dinitrophenol	ug/L	< 59.27	1.50	101.00	< 22.91	1.50	101.00	< 50.80	50.80	50.80
2,4-Dinitrotoluene	ug/L	< 14.57	0.50	24.00	< 5.93	0.50	24.00	< 15.30	15.30	15.30
2,6-Dinitrotoluene	ug/L	< 16.16	1.10	29.20	< 7.34	1.20	29.20	< 13.80	13.80	13.80
Di-n-octylphthalate	ug/L	< 8.83	0.84	14.90	< 4.40	0.85	14.90	< 14.90	14.90	14.90
1,2-Diphenylhydrazine	ug/L	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bis(2-Ethylhexyl)phthalate	ug/L	< 11.72	1.40	23.00	< 6.42	1.40	23.00	< 23.00	23.00	23.00
Fluoranthene	ug/L	< 11.53	0.51	22.20	< 5.50	0.51	22.20	< 22.20	22.20	22.20
Fluorene	ug/L	< 17.60	0.53	29.70	< 6.92	0.53	29.70	< 15.60	15.60	15.60
Hexachloro-1,3-butadiene	ug/L	< 18.95	1.00	31.20	< 7.70	1.00	31.20	< 15.80	15.80	15.80
Hexachlorobenzene	ug/L	< 15.32	0.75	24.60	< 6.47	0.76	24.60	< 16.60	16.60	16.60
Hexachlorocyclopentadiene	ug/L	< 20.13	1.20	33.50	< 8.09	1.20	33.50	< 13.40	13.40	13.40
Hexachloroethane	ug/L	< 23.35	0.67	39.90	< 8.99	0.67	39.90	< 18.40	18.40	18.40
Indeno(1,2,3-cd)pyrene	ug/L	< 11.62	0.69	20.50	< 5.54	0.69	20.50	< 20.50	20.50	20.50
Isophorone	ug/L	< 16.57	0.69	27.50	< 6.65	0.69	27.50	< 15.00	15.00	15.00
1-Methylnaphthalene	ug/L	< 17.10	0.94	28.10	< 6.98	0.94	28.10	< 14.30	14.30	14.30
2-Methylnaphthalene	ug/L	< 17.18	0.93	28.30	< 6.98	0.93	28.30	< 14.20	14.20	14.20
2-Methylphenol(o-Cresol)	ug/L	< 21.11	0.69	36.00	< 8.15	0.69	36.00	< 16.10	16.10	16.10
3&4-Methylphenol(m&p Cresol)	ug/L	< 14.77	0.62	24.40	< 6.01	1.20	23.80	< 14.30	14.30	14.30
Naphthalene	ug/L	< 19.07	0.73	32.40	< 7.38	0.74	32.40	< 14.00	14.00	14.00
2-Nitroaniline	ug/L	< 31.30	0.56	54.60	< 11.66	0.57	54.60	< 22.60	22.60	22.60
3-Nitroaniline	ug/L	< 29.81	0.93	50.20	< 11.73	0.93	50.20	< 26.60	26.60	26.60
4-Nitroaniline	ug/L	< 23.08	0.65	36.50	< 9.92	0.65	36.50	< 33.70	33.70	33.70
Nitrobenzene	ug/L	< 20.45	1.00	34.00	< 8.20	1.00	34.00	< 16.10	16.10	16.10
2-Nitrophenol	ug/L	< 16.03	0.76	26.00	< 6.67	0.76	26.00	< 16.50	16.50	16.50
4-Nitrophenol	ug/L	< 46.17	1.00	78.40	< 17.92	1.00	78.40	< 42.60	42.60	42.60
N-Nitrosodimethylamine	ug/L	< 17.18	0.91	28.00	< 7.10	0.92	28.00	< 15.90	15.90	15.90
N-Nitroso-di-n-propylamine	ug/L	< 16.33	0.88	26.20	< 6.89	0.89	26.20	< 17.10	17.10	17.10
N-Nitrosodiphenylamine	ug/L	< 12.58	0.47	20.40	< 5.22	0.47	20.40	< 14.50	14.50	14.50
2,2'-Oxybis(1-chloropropane)	ug/L	< 18.40	2.50	24.80	< 7.25	2.50	24.80	< 18.20	18.20	18.20
Pentachlorophenol	ug/L	< 20.24	0.62	35.20	< 9.16	0.62	35.20	< 35.20	35.20	35.20
Phenanthrene	ug/L	< 14.47	0.49	23.70	< 5.95	0.49	23.70	< 15.90	15.90	15.90
Phenol	ug/L	< 15.90	0.51	27.00	< 6.18	0.51	27.00	< 12.90	12.90	12.90
Pyrene	ug/L	< 9.26	0.64	22.00	< 4.86	0.64	22.00	< 22.00	22.00	22.00
1,2,4-Trichlorobenzene	ug/L	< 15.66	0.78	25.70	< 6.42	0.78	25.70	< 14.10	14.10	14.10
2,4,5-Trichlorophenol	ug/L	< 14.16	0.49	23.30	< 5.76	0.49	23.30	< 15.00	15.00	15.00
2,4,6-Trichlorophenol	ug/L	< 16.84	0.65	28.20	< 6.68	0.65	28.20	< 14.40	14.40	14.40

		Volatile Organics											
		Leachate			Equalization Effluent			Final Effluent					
Parameter	ug/L		Average	Minimum	Maximum	<	Average	Minimum	Maximum	<	Average	Minimum	Maximum
Acetone	ug/L		50.81	14.70	77.40	<	21.52	10.00	80.80	<	184.90	38.00	589.00
Acetonitrile	ug/L	U	5.20	5.00	7.00	<	5.09	5.00	5.80	<	88.76	5.00	188.00
Benzene	ug/L	U	0.10	0.10	0.14	<	0.11	0.10	0.20	<	3.33	0.10	12.50
Bromochloromethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	2.49	0.50	8.50
Bromodichloromethane	ug/L	U	0.27	0.27	0.27	<	0.27	0.27	0.27	<	227.23	5.10	414.00
Bromoform	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.95	0.50	13.00
Bromomethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	8.43	0.50	22.50
2-Butanone (MEK)	ug/L		32.06	5.00	47.20	<	8.52	5.00	36.70	<	17.01	4.80	48.00
Carbon disulfide	ug/L	U	5.00	5.00	5.00	<	5.00	5.00	5.00	<	17.60	5.00	57.50
Carbon tetrachloride	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	7.28	1.40	12.50
Chlorobenzene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.28	0.50	11.50
Chloroethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	7.41	0.50	27.00
Chloroform	ug/L	U	0.57	0.50	0.79	<	0.59	0.50	1.30	<	2204	119	5030
Chloromethane	ug/L	U	0.62	0.62	0.62	<	0.62	0.62	0.62	<	6.21	1.90	13.50
1,2-Dibromo-3-chloropropane	ug/L	U	1.00	1.00	1.00	<	1.00	1.00	1.00	<	15.67	1.00	80.00
Dibromochloromethane	ug/L	U	0.26	0.26	0.26	<	0.26	0.26	0.26	<	32.22	0.43	108.00
1,2-Dibromoethane (EDB)	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.96	0.50	13.50
Dibromomethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.00	0.50	10.50
1,2-Dichlorobenzene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	4.28	0.50	15.00
1,4-Dichlorobenzene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	4.94	0.50	16.50
trans-1,4-Dichloro-2-butene	ug/L	U	5.00	5.00	5.00	<	5.00	5.00	5.00	<	19.71	5.00	72.70
1,1-Dichloroethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	4.45	0.50	16.00
1,2-Dichloroethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.40	0.50	12.00
1,2-Dichloroethene (Total)	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	6.93	0.50	24.50
1,1-Dichloroethene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	7.68	0.50	28.00
cis-1,2-Dichloroethene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	2.74	0.50	9.50
trans-1,2-Dichloroethene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	6.68	0.50	24.50

		Volatile Organics											
		Leachate			Equalization Effluent			Final Effluent					
Parameter	ug/L		Average	Minimum	Maximum		Average	Minimum	Maximum		Average	Minimum	Maximum
1,2-Dichloropropane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.80	0.50	13.50
cis-1,3-Dichloropropene	ug/L	U	0.25	0.25	0.25	<	0.25	0.25	0.25	<	1.83	0.25	6.50
trans-1,3-Dichloropropene	ug/L	U	0.25	0.25	0.25	<	0.25	0.25	0.25	<	3.54	0.25	13.00
Ethylbenzene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	4.19	0.50	15.00
2-Hexanone	ug/L	U	5.00	5.00	5.00	<	5.00	5.00	5.00	<	15.20	2.30	71.70
Iodomethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	6.49	0.50	16.80
Isopropylbenzene (Cumene)	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	5.71	0.50	20.00
Methylene Chloride	ug/L	U	2.50	2.50	2.50	<	2.50	2.50	2.50	<	28.28	2.50	105.00
4-Methyl-2-pentanone (MIBK)	ug/L	U	5.00	5.00	5.00	<	5.00	5.00	5.00	<	7.79	1.60	20.90
Methyl-tert-butyl ether	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.13	0.50	10.50
Styrene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.66	0.50	13.00
1,1,1,2-Tetrachloroethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	4.58	0.50	16.50
1,1,2,2-Tetrachloroethane	ug/L	U	0.12	0.12	0.12	<	0.12	0.12	0.12	<	5.31	0.12	20.00
Tetrachloroethene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	6.29	0.50	23.00
Toluene	ug/L	U	0.67	0.50	1.10	<	0.51	0.50	0.62	<	3.66	0.50	13.00
1,1,1-Trichloroethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	6.55	0.50	24.00
1,1,2-Trichloroethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	4.05	0.50	14.50
Trichloroethene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	6.43	0.50	23.50
Trichlorofluoromethane	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	2.88	0.50	10.00
1,2,3-Trichloropropane	ug/L	U	0.59	0.59	0.59	<	0.59	0.59	0.59	<	5.67	0.59	20.50
1,2,4-Trimethylbenzene	ug/L	U	0.93	0.50	4.80	<	0.50	0.50	0.50	<	4.86	0.50	15.50
1,3,5-Trimethylbenzene	ug/L	U	0.63	0.50	1.80	<	0.50	0.50	0.50	<	5.31	0.50	18.00
Vinyl acetate	ug/L	U	1.00	1.00	1.00	<	1.00	1.00	1.00	<	5.10	1.00	17.50
Vinyl chloride	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	8.39	0.50	31.00
Xylene (Total)	ug/L	U	1.50	1.50	1.50	<	1.50	1.50	1.50	<	13.88	1.50	50.00
m&p-Xylene	ug/L	U	1.00	1.00	1.00	<	1.00	1.00	1.00	<	9.53	1.00	33.00
o-Xylene	ug/L	U	0.50	0.50	0.50	<	0.50	0.50	0.50	<	3.41	0.50	11.50