

RICK SCOTT  
GOVERNORJENNIFER CARROLL  
LT. GOVERNORHERSCHEL T. VINYARD JR.  
SECRETARY

# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

SOUTHEAST DISTRICT OFFICE  
400 NORTH CONGRESS AVENUE, 3<sup>RD</sup> FLOOR  
WEST PALM BEACH, FL 33401  
(561) 681-6600

December 10, 2012 ELECTRONIC CORRESPONDENCE

In the Matter of an  
Application for Permit by:

Miami-Dade Water and Sewer Department  
John W. Renfrow  
PO Box 330316  
Miami, Florida 33233-316

File Number FLA042137-020-DW1P  
Miami-Dade County  
MDWASD South District WWTF

## NOTICE OF PERMIT ISSUANCE

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

The applicant, Miami-Dade Water and Sewer Department, applied on December 30, 2010, to the Department of Environmental Protection for a permit to construct some modifications and to operate a 112.5 mgd domestic wastewater treatment facility (WWTF) which would inject 112.5 mgd of effluent to Class I underground injection wells, which discharge to Class G-IV groundwater. The facility will be located at latitude 25°33'3.87" N, longitude 80°20'04" W on 8950 SW 232nd St., MDWASD South District WWTF, Miami, Florida 33190-1301 in Miami-Dade County.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code. The project is not exempt from permitting procedures. The Department has determined that a wastewater permit is required for the proposed work.

Based upon the application and supplemental information, the Department has determined that the applicant has provided reasonable assurance that the above described wastewater project complies with the applicable provisions of Chapter 403 of the Florida Statutes and Title 62 of the Florida Administrative Code.

Under Section 403.815, Florida Statutes, and Rule 62-110.106, Florida Administrative Code, you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice must be published one time only within 30 days of receipt of this intent to issue in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, Florida Statutes, in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used should be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant must provide proof of publication to the Department's Southeast District Office, 400 N Congress Ave, 3rd Floor, West Palm Beach, Florida 33401-2913, within two weeks of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit under Rule 62-110.106(11), Florida Administrative Code.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes, within fourteen days of receipt of notice. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, Florida Statutes. The petition must contain the information set forth below and 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.

Under Rule 62-110.106(4), Florida Administrative Code, a person may request an extension of the time for filing a petition for an administrative hearing. The request must be filed (received by the Clerk) in the Office of General Counsel before the end of the time period for filing a petition for an administrative hearing.

Petitions by the applicant or any of the persons listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), Florida Statutes, must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first. Section 120.60(3), Florida Statutes, however, also allows that any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for an extension of time within fourteen days of receipt of notice shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, Florida Statutes. 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, Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information, as indicated in Rule 28-106.201, Florida Administrative Code:

- (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 will be affected by the determination;
- (c) A statement of when and how the petitioner received notice of the Department's 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 the petitioner contends warrant reversal or modification of the Department's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's proposed action.

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

John W Renfrow  
Miami-Dade County  
Miami-Dade Water and Sewer Department  
MDWASD South District WWTF  
Permit Number FLA042137  
Page 3

Mediation under Section 120.573, Florida Statutes, is not available for this proceeding.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

\_\_\_\_\_  
Linda A. Brien, P.G. Date  
Water Facilities Program Administrator  
Southeast District

LAB/JAA/mwb:FLA042137-020-DW1P

FILING AND ACKNOWLEDGMENT

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

\_\_\_\_\_  
[Clerk] 12/10/12  
(Date)

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were e-mailed before the close of business on December 10, 2012 to the listed persons.

\_\_\_\_\_  
Name 12/10/12  
Date

Enclosure

ec: Nona Schaffner, OGC/TLH, [Nona.Schaffner@dep.state.fl.us](mailto:Nona.Schaffner@dep.state.fl.us)  
Richard O'Rourke, MDWASD, [ROROU01@miamidade.gov](mailto:ROROU01@miamidade.gov)  
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**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

SOUTHEAST DISTRICT OFFICE  
400 NORTH CONGRESS AVENUE, 3<sup>RD</sup> FLOOR  
WEST PALM BEACH, FL 33401  
(561) 681-6600

RICK SCOTT  
GOVERNOR

JENNIFER CARROLL  
LT. GOVERNOR

HERSCHEL T. VINYARD JR.  
SECRETARY

**STATE OF FLORIDA  
DOMESTIC WASTEWATER FACILITY PERMIT**

**PERMITTEE:**

Miami-Dade Water and Sewer Department

**PERMIT NUMBER:** FLA042137

**FILE NUMBER:** FLA042137-020-DW1P

**ISSUANCE DATE:** December 10, 2012

**EXPIRATION DATE:** December 9, 2017

**RESPONSIBLE OFFICIAL:**

Mr. John W. Renfrow  
PO Box 330316  
Miami, Florida 33233-316  
(786) 552-8086

**FACILITY:**

MDWASD South District WWTF  
8950 SW 232nd St.  
MDWASD SOUTH DISTRICT WWTF  
Miami, FL 33190-1301  
Miami-Dade County  
Latitude: 25°33' 3.87" N Longitude: 80°20' .04" 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 construct and operate the facilities in accordance with the documents attached hereto and specifically described as follows:

**WASTEWATER TREATMENT:**

An existing 112.5 mgd Annual Average Daily Flow (AADF) wastewater treatment facility (WWTF) with two 66.25 mgd treatment trains consisting of influent screening, four (4) aerated grit chambers, a septic receiving facility, seven (7) oxygenation trains, three (3) cryogenic oxygen plants, ten (10) final clarifiers, a transfer pump station, thirty deep bed filters, nine chlorine contact chambers, a sodium hypochlorite generation facility, eighteen effluent pumps, seventeen (17) deep injection wells, and biosolids stabilization by six (6) primary and six (6) secondary digesters followed by dewatering, sludge drying beds and composting facilities. The plant underwent a major modification that added a new high level disinfection facility, with increased aeration basin capacity and four (4) new clarifiers with a rated capacity of 285 mgd, maximum peak hourly flow.

**REUSE OR DISPOSAL:**

**Underground Injection U-001:** An existing 112.5 mgd AADF permitted capacity underground injection well system consisting of 17 Class I underground injection wells permitted under Department Permit Numbers 0061787-022-UO and 0061787-023-UO discharging to Class G-IV ground water. The Underground Injection Well System U-001 is located approximately at latitude 25°33' 7" N, longitude 80°19' 59" W.

**Industrial Reuse R-001:** An existing industrial reuse system using reclaimed water for plant water uses, located approximately at latitude 25°33' 7" N, longitude 80°19' 59" W.

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

**Land Application R-002:** A renovated plant site irrigation of plant effluent via slow-rate non-public access system located approximately at latitude 25°33' 7" N, longitude 80°19' 59" W.

**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 614 of this permit.

PERMITTEE: Miami-Dade Water and Sewer Department  
 FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

## I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

### A. Underground Injection Control Systems

- During the period beginning on the issuance date and ending at the expiration date of this permit, the Permittee is authorized to discharge effluent to Underground Injection Well System U-001 located approximately at latitude 25°33'7", longitude 80°19'59". Such discharge shall be limited and monitored by the Permittee as specified below and reported in accordance with Permit Condition I.C. 7.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total to Injection Wells)	mgd	Max Max	Report Report	Annual Average Monthly Average	Daily; 24 hours	Calculated	CAL-01	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFF-03	See I.A.10.
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Daily; 24 hours	Grab	EFB-01	
pH (Western Sampling Site)	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFF-01	See I.A.3.
pH (Eastern Sampling Site)	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFF-02	See I.A.3.
Coliform, Fecal (Western Sampling Site)	#/100mL	Max	25	Single Sample	Daily; 24 hours	Grab	EFF-01	
Coliform, Fecal (Eastern Sampling Site)	#/100mL	Max	25	Single Sample	Daily; 24 hours	Grab	EFF-02	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	Monthly	Calculated	CAL-02	See I.A.5.
Total Residual Chlorine (For Disinfection) (Western Sampling Site)	mg/L	Minimum	1.0	Single Sample	Continuous	Meter	EFF-01	See I.A.6. A. 7. and A. 10..
Total Residual Chlorine (For Disinfection) (Eastern Sampling Site)	mg/L	Minimum	1.0	Single Sample	Continuous	Meter	EFF-02	See I.A.6. A. 7. and A. 10..
Flow Western Site	mgd	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-01	See I.A.4.
Flow Eastern Site	mgd	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-02	See I.A.4.

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
CAL-01	Total flow to the Deep Injection Well System U-001 equals summation of flow of FLW-01 thru FLW-02
CAL-02	See Paragraph I. A. 5
EFB-01	Sampling port after the effluent filters and before the chlorine contact chamber
EFF-01	Sampling port adjacent to the western flow meter (FLW-01) located on the loop injection well pressure main
EFF-02	Sampling port adjacent to the eastern flow meter (FLW-02) located on the loop injection well pressure main
EFF-03	The combination of the flow proportionate samples taken at EFF-01 and EFF-02
FLW-01	Western flow meter located on the loop injection well pressure main
FLW-02	Eastern flow meter located on the loop injection well pressure main

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2]*
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. *[62-601.200(17) and .500(6)]*
5. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). *[62-600.440(5)(f)]*
6. The minimum total chlorine residual shall be limited as described in the approved operating protocol, such that the permit limitation for fecal coliform bacteria will be achieved. In no case shall the total chlorine residual be less than 1.0 mg/L unless approved by the Department. The operating protocol shall be updated when needed to assure that each different disposal methods receive the appropriate treatment. *[62-600.440(5)(b); 62-610.460(2); and 62-610.463(2)]*
7. Instruments for continuous on-line monitoring of total residual chlorine shall be equipped with an automated data logging or recording device. *[62-610.463(2)]*
8. The use of the Deep Injections wells is covered in the Department's Underground Injection Control (UIC) permit (Department Permit Number s 61787-022-UO and 61787-023-UC). This permit is not meant to supersede the UIC requirements. *[62-4.070 (1) & (3)], and [62-4.244 (3) (c)]*
9. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hour flow. *[62-610.510, 62-600.440(4)(b) and (5)(b)]*
10. The composite sampling will be the combined total volumes collected by the two (2) composite samplers (EFF-01 and EFF-02) where each composite sampler is controlled by it's respective one of the two (2) flow meters (FLW-01 and FLW-02) used to calculate the entire discharge to the deep wells. *[62-4.070 (1) & (3)], and [62-4.244 (3) (c)]*

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

## B. Reuse and Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the Permittee as specified below and reported in accordance with Permit Condition I.C. 7.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max./Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Plant Water)	mgd	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-03	See I.B.3.



PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

2. Reclaimed water 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-03	Flow to Plant Water

3. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. *[62-601.200(17) and .500(6)]*

4. During the period beginning on the issuance date and lasting through the expiration date of this permit, the Permittee is authorized to direct reclaimed water to Reuse System R-002. Such reclaimed water shall be limited and monitored by the Permittee as specified below and reported in accordance with Permit Condition I.C. 7.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max./Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (on-site irrigation)	mgd	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-04	See I.B.6

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

5. Reclaimed water 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-04	Flow to on-site non-public access irrigation

6. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. *[62-601.200(17) and .500(6)]*

PERMITTEE: Miami-Dade Water and Sewer Department  
 FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

### C. Other Limitations and Monitoring and Reporting Requirements

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the Permittee as specified below and reported in accordance with Condition I.B.7:

			Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total Influent Flow)	mgd	Max Max Max	112.5 Report Report	Annual Average Monthly Average Three-month Average	Continuous	Recording Flow Meter with Totalizer	CAL-03	
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	CAL-04	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	Daily; 24 hours	24-hr FPC	INF-01	See I.C.3 and 11
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	Daily; 24 hours	24-hr FPC	INF-01	See I.C.3 and 11
Flow (East influent flow meter)	mgd	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-05	See I.C.4
Flow (West influent flow meter)	mgd	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-06	See I.C.4

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

Monitoring Site Number	Description of Monitoring Site
CAL-03	Total Influent flow equals FLW-05 plus FLW-06
CAL-04	Calculated Percent Capacity equals ((CAL-03/112.5 AADF) times 100)
INF-01	Influent Flow Proportionate Composite Sample based on at Influent Preliminary Treatment Buildings (See Condition I. C. 11.)
FLW-05	East Influent flow meter
FLW-06	West Influent flow meter

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-601.200(17) and .500(6)]
5. 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 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical 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:
- 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;
  - 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
  - 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]

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

6. The Permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5)]
7. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the Permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the Permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, toxicity, 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	Mail or Electronically Submit by
Monthly	first day of month - last day of month	28 <sup>th</sup> day of following month
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 30	July 28 January 28
Annual	January 1 - December 31	January 28

The Permittee may submit either paper or electronic 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 Southeast District Office at the address specified in Permit Condition I.B.9. by the twenty-eighth (28th) of the month following the month of operation.

If submitting electronic DMR forms, the Permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms 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.

[62-620.610(18)][62-601.300(1),(2), and (3)]

8. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, color, odor, and corrosivity). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department at the address identified on the DMR by June 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-601.300(4)][62-601.500(3)][62-610.300(4)]
9. 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 Southeast District Office at the address specified below:

Florida Department of Environmental Protection Southeast District Office  
400 N Congress Ave  
3<sup>rd</sup> Floor

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

West Palm Beach, Florida 33401-2913

Phone Number - (561)681-6600

FAX Number - (561)681-6760

(All FAX copies and e-mails shall be followed by original copies.)

*[62-620.305]*

10. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. *[62-620.305]*
11. The composite sampling will be the combined total volumes collected by the two (2) composite samplers located at the two preliminary treatment building (screening and grit removal processes where each composite sampler is controlled by one of the two (2) flow meters ( FLW-05 and FLW-06) used to calculate the influent flows. *[62-4.070 (1) & (3)], and [62-4.244 (3) (c)]*

## **II. BIOSOLIDS MANAGEMENT REQUIREMENTS**

### **A. Basic Requirements**

1. Biosolids generated by this facility may be land applied, distributed and marketed, transferred to Department Approved Biosolids Treatment Facility, and used as a biofuel or for bioenergy or disposed of in a Class I solid waste landfill. Transferring biosolids to an alternative biosolids treatment facility does not require a permit modification. However, use of an alternative biosolids treatment facility requires submittal of a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the biosolids. *[62-620.320(6), 62-640.880(1)]*
2. The Permittee shall monitor and keep records of the quantities of biosolids generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled. These records shall be kept for a minimum of five years. *[62-640.650(4)(a)]*

3. Biosolids quantities shall be monitored by the Permittee as specified below. Results shall be reported on the Permittee's Discharge Monitoring Report in accordance with Condition I.B.7.

Parameter	Units	Max/ Min	Biosolids Limitations		Monitoring Requirements		
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Biosolids Quantity (Distributed & Marketed in FL)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-1
Biosolids Quantity (Distributed & Marketed outside FL)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-2
Biosolids Quantity (Land-Applied)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-3
Biosolids Quantity (Transferred)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-4
Biosolids Quantity (Landfilled)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-5
Biosolids Quantity (Used as a Biofuel or for Bioenergy)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-6

[62-640.650(5)(a)1]

4. Biosolids quantities shall be calculated as listed in Permit Condition II.3 and as described below:

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-1	((On-site scale weight in tons x percent solids) divided by (100))
RMP-2	((On-site scale weight in tons x percent solids) divided by (100))
RMP-3	((On-site scale weight in tons x percent solids) divided by (100))
RMP-4	((On-site scale weight in tons x percent solids) divided by (100))
RMP-5	((On-site scale weight in tons x percent solids) divided by (100))
RMP-6	((On-site scale weight in tons x percent solids) divided by (100))

5. The treatment, management, transportation, use, land application, or disposal of biosolids shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. [62-640.400(6)]
6. Storage of biosolids or other solids at this facility shall be in accordance with the Facility Biosolids Storage Plan. [62-640.300(4)]
7. Biosolids shall not be spilled from or tracked off the treatment facility site by the hauling vehicle. [62-640.400(9)]
8. The Permittee is authorized to produce Class AA and B biosolids.

B. Treatment and Monitoring Requirements (Class B or Class AA)

1. Sampling and analysis shall be conducted in accordance with 40 CFR Part 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, August 1989. In cases where conflicts exist between 40 CFR 503.8 and the POTW Sludge



PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

Sampling and Analysis Guidance Document, the requirements in 40 CFR Part 503.8 will apply. [62-640.650(3)(a)1]

2. All samples shall be representative and shall be taken after final treatment of the biosolids but before land application or distribution and marketing. [62-640.650(3)(a)5]
3. Biosolids samples shall be taken at the monitoring site locations listed in Permit Condition(s) II.C. 5. and II. D. 4. and as described below:

Monitoring Site Number	Description of Monitoring Site
RMP-AA	Class AA Biosolids: From the Static Pile Composting after composting has been completed and prior to hauling off-site.
RMP-B	Class B Biosolids: From the paved drying bed just prior to hauling off-site.

C. Treatment and Monitoring Requirements (Class B)

1. The Permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(2) (Monitoring of Indicator Organisms) or Section 503.32(b)(3) (Use of PSRP (Processes to Significantly Reduce Pathogens) – Anaerobic Digestion) of Title 40 CFR Part 503. [62-640.600(1)(b)]
2. The Permittee shall achieve vector attraction reduction for Class B biosolids by meeting the vector attraction reduction requirements in section 503.33(b)(1) (Reduce the mass of volatile solids by a minimum of 38 %); Section 503.33(b)(2) (Demonstrate vector attraction reduction with additional anaerobic digestion in a bench-scale unit or Section 503.33(b)(10) (Incorporate biosolids into the soil within 6 hours after application)... of Title 40 CFR Part 503. [62-640.600(2)(a)]
3. Vector attraction based on the anaerobic digester shall be routinely monitored to demonstrate compliance with vector attraction reduction requirements specified in Rule 62-640.600, F.A.C. as per the biosolids management plant. [62-640.650(3)(a)2]
4. Treatment of liquid biosolids or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of biosolids or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. [62-640.400(7)]

5. Class B biosolids shall comply with the limits and be monitored by the Permittee as specified below. Results shall be reported on the Permittee's Discharge Monitoring Report in accordance with Permit Condition I.B.7. Biosolids shall not be land applied if a single sample result for any parameter exceeds the following:

Parameter	Units	Max /Min	Biosolids Limitations		Monitoring Requirements		
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Single Sample	Monthly	Composite	RMP-B
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Single Sample	Monthly	Composite	RMP-B
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Single Sample	Monthly	Composite	RMP-B
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	Monthly	Composite	RMP-B
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	85.0	Single Sample	Monthly	Composite	RMP-B
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	4300.0	Single Sample	Monthly	Composite	RMP-B
Lead, Dry Weight, Sludge	mg/kg	Max	840.0	Single Sample	Monthly	Composite	RMP-B
Mercury, Dry Weight, Sludge	mg/kg	Max	57.0	Single Sample	Monthly	Composite	RMP-B
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	Monthly	Composite	RMP-B
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Single Sample	Monthly	Composite	RMP-B
Selenium Sludge Solid	mg/kg	Max	100.0	Single Sample	Monthly	Composite	RMP-B
Zinc, Dry Weight, Sludge	mg/kg	Max	7500.0	Single Sample	Monthly	Composite	RMP-B
pH	s.u.	Max	Report	Single Sample	Monthly	Grab	RMP-B
Solids, Total, Sludge, Percent	percent	Max	Report	Single Sample	Monthly	Composite	RMP-B

[62-640.650(3)(a)(3) and 62-640.700(5)(a)]

D. Treatment and Monitoring Requirements (Class AA)

1. The Permittee shall achieve Class AA pathogen reduction by meeting the pathogen reduction requirements in section 503.32(a)(7) (Use of PFRP (Processes to Further Reduce Pathogens)-Composting) of Title 40 CFR Part 503. [62-640.600(1)(a)]
2. The Permittee shall achieve vector attraction reduction for Class AA biosolids by meeting the vector attraction reduction requirements in section 503.33(b)(1) (Reduce the mass of volatile solids by a minimum of 38%) of Title 40 CFR Part 503. [62-640.600(2)(a)]
3. Temperature in the static piles composting for shall be routinely monitored to demonstrate compliance with pathogen reduction requirements specified in Rule 62-640.600, F.A.C. [62-640.650(3)(a)2]

PERMITTEE: Miami-Dade Water and Sewer Department  
 FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

4. Class AA biosolids shall comply with the limits and be monitored by the Permittee as specified below. Results shall be reported on the Permittee's Discharge Monitoring Report in accordance with Permit Condition I.B.7. Biosolids shall not be distributed and marketed or land applied if a single sample result or the monthly average of sample results for any parameter exceeds the following Class AA parameter concentrations:

Parameter	Units	Max /Min	Biosolids Limitations		Monitoring Requirements		
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA
Arsenic Total, Dry Weight, Sludge	mg/kg	Max Max	41.0 75.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max Max	39.0 85.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max Max	1500.0 4300.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Lead, Dry Weight, Sludge	mg/kg	Max Max	300.0 840.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Mercury, Dry Weight, Sludge	mg/kg	Max Max	17.0 57.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	Monthly	Composite	RMP-AA
Nickel, Dry Weight, Sludge	mg/kg	Max Max	420.0 420.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Selenium Sludge Solid	mg/kg	Max Max	100.0 100.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Zinc, Dry Weight, Sludge	mg/kg	Max Max	2800.0 7500.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
pH	s.u.	Max	Report	Single Sample	Monthly	Grab	RMP-AA
Solids, Total, Sludge, Percent	percent	Max Max	Report Report	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Coliform, Fecal	MPN/g	Max	1000.0	Single Sample	Monthly	Grab	RMP-AA
Salmonella Sludge	MPN/4g	Max	3.0	Single Sample	Monthly	Grab	RMP-AA

\*Either the fecal coliform limit or Salmonella sp. limit must be met.

\*\*Note, monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month.

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

*[62-640.650(3)(a)(3), 62-64.700(5)(a), 62-650.700(5)(b) and 62-640.850(4)]*

5. Class AA biosolids that are stored for more than 45 days shall be re-sampled for fecal coliform or Salmonella sp. every 30 days. *[62-640.650(3)(a)5]*

E. Distribution and Marketing

1. All samples shall be representative and shall be taken after final treatment of the biosolids but before land application or distribution and marketing. *[62-640.650(3)(a)5]*
2. Only biosolids or biosolids products that meet Class AA standards and are either registered as a fertilizer or enrolled and certified under the U.S. Composting Council's Seal of Testing Assurance (USCC STA) program may be sold or given away in a distribution and marketing program. The distribution and marketing of biosolids shall be conducted in accordance with Chapter 62-640, F.A.C. *[62-640.850]*
3. Within 24 hours of discovering that distributed and marketed biosolids did not meet the Class AA standards, the Permittee shall notify the Department and all persons to whom they delivered or distributed and marketed the Class AA biosolids. *[62-640.650(6)(g)]*
4. The Permittee shall make the following information available to users by product labels or other means:
  - a. The fertilizer label required by Florida fertilizer law or the equivalent information required by the USCC STA program;
  - b. The name and address of the facility or person that produced the Class AA biosolids;
  - c. A statement that the biosolids or biosolids product meets the criteria of subsection 62-640.700(5), F.A.C.;
  - d. Recommendation that biosolids be applied at a rate that does not exceed crop or plant nutrient needs and;
  - e. Recommendations on proper storage of the biosolids or biosolids product prior to use. For distributed quantities of biosolids or biosolids products greater than one dry ton, the recommendations shall include that biosolids may not be stored on property for more than seven days unless stored to prevent runoff of biosolids or stormwater that has been in contact with biosolids, violation of the odor prohibition in subsection 62-296.320(2), F.A.C., and vector attraction.

*[62-640.850(5)]*

5. The Class AA biosolids produced by this facility shall not be distributed and marketed in the Lake Okeechobee, St. Lucie River, and Caloosahatchee River watersheds unless the biosolids are registered as a fertilizer under Chapter 576, F.S., and Chapter 5E-1, F.A.C., or distributed and marketed to a person who will sell or give away the biosolids as a fertilizer or as a component in a fertilizer product under Chapter 576, F.S., and Chapter 5E-1, F.A.C. *[373.4595, F.S., & 62-640.850(2)]*

F. Land Application at Sites Approved under an Agricultural Use Plan (Applicable through January 1, 2013)

1. Land application of biosolids at sites not permitted under Chapter 62-640, F.A.C., as amended on August 29, 2010, shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C., as amended on March 30, 1998. *[62-640, 3-30-98]*

PERMITTEE: Miami-Dade Water and Sewer Department  
 FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

2. Current Agricultural Use Plan(s) identify the following biosolids sites:

Application Site Number	Site Name	Latitude			Longitude			Application Area (acres)	County
		°	'	"	°	'	"		
FLA331473	Whaley Ranch	28	01	37	81	02	17	2017	Osceola
FLA331503	E & B Grove	27	34	00	80	34	53	645	Indian River
FLA316326	Ranch One Cooperative, Inc.	26	17	51	81	22	39	1241	Collier
FLA381403	Altman Ranch	26	26	49	81	33	42	161	Charlotte
FLA406252	Evans – Payson Grove	26	56	30	81	34	16	5426	Charlotte
FLA617903	Hayman 711 Ranch	27	50	12	80	57	59	3015	Osceola

[62-640.300(1), 3-30-98]

3. Use of sites listed in the table Condition II.F. 2. will cease in accordance with the schedule in Permit Condition VI.1. [62-640.100(5)(g)]
4. The wastewater treatment facility Permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for modified or expanded biosolids application sites. The facility's permit shall be revised to include the revised Agricultural Use Plan(s) prior to application of biosolids to the modified or expanded sites. [62-640.300(2), 3-30-98]
5. Under unusual circumstances, an existing site may be used for biosolids application prior to permit revision if all of the following conditions are met:
- The Permittee notifies the Department within 24 hours that the site is being used;
  - The site meets the site use restrictions of Rule 62-640.600(3), F.A.C., and the criteria for land application of biosolids in Rule 62-640.700, F.A.C.;
  - The Permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
  - The Permittee does not have another approved land application site, another approved disposal method (e.g. landfilling), or approved storage facilities available for use; and,
  - The Permittee demonstrates during permit application that application of additional biosolids to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the Permittee's control.

[62-640.300(3), 3-30-98]

6. Florida water quality criteria and standards shall not be violated as a result of land application of biosolids from this facility. [62-640.400(2)]

7. The application of biosolids to application zones shall be restricted by the following cumulative application limits:

Parameter	Cumulative Application Limits
Arsenic	36.6 pounds/acre
Cadmium	34.8 pounds /acre
Copper	1340 pounds/acre
Lead	268 pounds/acre
Mercury	15.2 pounds/acre
Nickel	375 pounds/acre
Selenium	89.3 pounds/acre
Zinc	2500 pounds/acre

*[62-640.700(3)(b), 3-30-98]*

8. Class B biosolids shall not be used on unrestricted public access areas. Use of Class B biosolids is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians.  
*[62-640.600(3)(b), 3-30-98]*
9. Plant nursery use of Class B biosolids is limited to plants which will not be sold to the public for 12 months after the last application of biosolids. *[62-640.600(3)(b)1, 3-30-98]*
10. Use of Class B biosolids on roadway shoulders and medians is limited to restricted public access roads.  
*[62-640.600(3)(b)2, 3-30-98]*
11. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B biosolids. *[62-640.600(3)(b)6, 3-30-98]*
12. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B biosolids. *[62-640.600(3)(b)3, 3-30-98]*
13. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B biosolids when the biosolids remain on the land surface for four months or longer before incorporation into the soil. *[62-640.600(3)(b)4, 3-30-98]*
14. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B biosolids when the biosolids remain on the land surface for less than four months before incorporation into the soil. *[62-640.600(3)(b)5, 3-30-98]*
15. Animals shall not be grazed on the land for 30 days after the last application of Class B biosolids.  
*[62-640.600(3)(b)7, 3-30-98]*
16. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B biosolids. *[62-640.600(3)(b)8, 3-30-98]*

17. The public shall be restricted from application zones for 12 months after the last application of Class B biosolids. *[62-640.600(3)(b), 3-30-98]*
18. Biosolids that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. *[62-640.400(7), 3-30-98]*
19. Biosolids storage facilities at land application sites shall be subject to applicable setback requirements for biosolids application sites. Biosolids stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the biosolids, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored biosolids must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Biosolids storage facilities at land application sites may be used only for temporary storage of stabilized biosolids for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. *[62-640.700(2)(e), 3-30-98]*
20. Biosolids application sites shall be posted with appropriate advisory signs identifying the nature of the project area. *[62-640.700(2)(f), 3-30-98]*
21. The pH of the biosolids soil mixture shall be 5.0 or greater at the time biosolids are applied. At a minimum, soil pH testing shall be done annually. *[62-640.700(5)(d), 3-30-98]*
22. The Permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The Permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:
  - a. Date of application of the biosolids;
  - b. Location of the biosolids application site as specified in the Agricultural Use Plan;
  - c. Identification of each application zone used by the Permittee at the application site and the acreage of each zone;
  - d. Amount of biosolids applied or delivered to each application zone;
  - e. Cumulative loading of each application zone;
  - f. The names of all other wastewater facilities using each of the application zones identified in item c.;
  - g. Method of incorporation (if any);
  - h. Measured pH of the biosolids soil mixture at the time the biosolids are applied (tested at least annually);
  - i. Unsaturated depth of soil above the water table level at the time of application;
  - j. Concentration of parameters in the biosolids as required by this permit, and the date of last analysis; and
  - k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.*[62-640.650(2), 3-30-98]*
23. The Permittee shall submit an annual summary of biosolids application activity to the Department's Southeast District Office on Department Form 62-640.210(2)(b) for all biosolids applied during the period of January 1 through December 31, 2012. The summary shall be submitted by February 19, 2013. If more than one facility applies biosolids to the same application zones, the summary must

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

- include a subtotal of each facility's contribution of biosolids to the application zones. [62-640.650(3)(b), 3-30-98]
24. If biosolids that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., 3-30-98, have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of biosolids may be made to that application zone. [62-640.700(3)(f), 3-30-98]
  25. Biosolids shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. [62-640.700(2)(c), 3-30-98]
  26. The spraying of liquid domestic wastewater biosolids shall be conducted so that the formation of aerosols is minimized. [62-640.700(2)(d), 3-30-98]
  27. A minimum unsaturated soil depth of two feet above the water table level is required at the time the biosolids are applied to the soil. [62-640.700(6)(a), 3-30-98]
  28. Biosolids shall not be applied during rains that cause runoff from the site or when surface soils are saturated. [62-640.700(7)(a), 3-30-98]
  29. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the approved Agricultural Use Plan(s). [62-640.860, 3-30-98]
  30. After an application site is permitted, land application of biosolids at the site shall be in accordance with the site permit, the Nutrient Management Plan, and the requirements of Chapter 62-640, F.A.C., as amended on August 29, 2010. [62-640]
  31. The biosolids from this facility shall only be land applied at sites identified on the Treatment Facility Biosolids Plan, Form 62-640.210(2)(a), submitted with the permit application or revised in accordance with condition II.56 below, which is incorporated as part of this permit. [62-640.300(2)]
  32. The Permittee shall notify the Department at least 24 hours before beginning biosolids application at a site not listed in the Treatment Facility Biosolids Plan Form 62-640.210(2)(a). The facility's Treatment Facility Biosolids Plan shall be revised to include the new site and submitted to the Department within 30 days of using the site. The revised Treatment Facility Biosolids Plan shall become part of the treatment facility permit. [62-640.300(2)(c) & 62-640.650(6)(a)]
  33. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Nutrient Management Plan(s) approved for the site where the other solids will be applied. [62-640.860]



PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

34. The Permittee shall maintain hauling records to track the transport of biosolids between the treatment facility and the application site. The hauling records for each party shall contain the following information:

Treatment Facility Permittee

1. Date and time shipped and shipment ID
2. Amount of biosolids shipped
3. Concentration of parameters & date of analysis
4. Name and ID number of permitted application site
5. Class of biosolids shipped
6. Signature of certified operator or designee
7. Signature of hauler and name of hauling firm

Site Permittee

1. Date and time received and shipment ID
2. Name and ID number of treatment facility from which biosolids are received
3. Signature of hauler
4. Signature of site manager

A copy of the treatment facility hauling records for each shipment shall be provided upon delivery of the biosolids to the biosolids site manager. The Permittee shall report to the Department within 24 hours of discovery of any discrepancy in the delivery of biosolids leaving the treatment facility and arriving at the permitted application site. Treatment facility permittees shall notify the Department, site manager, and site Permittee within 24 hours of discovery of sending biosolids that did not meet the requirements of Rule 62-640.600, F.A.C., or subsection 62-640.700(5), F.A.C., to a land application site.

*[62-640.650(4) & (5)]*

35. The Permittee shall maintain copies of the Biosolids Application Site Annual Summaries, received from site permittees in accordance with 62-640.650(5)(e), F.A.C., indefinitely. *[62-640.650(4)(d)]*
36. For biosolids shipped January 1, 2013 and thereafter, the Permittee shall submit a Treatment Facility Biosolids Annual Summary to the Department's Southeast District Office on Department Form 62-640.210(2)(b). The summary shall include all biosolids shipped during the period January 1 through December 31 and shall be submitted to the Department by February 19 of the year following the year of application. The first annual summary shall be submitted by February 19, 2014, and shall report biosolids shipped during calendar year 2013. *[62-640.650(5)(c)]*
37. Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(b) & (c)]*

G. Land Application at Permitted Sites

1. After an application site is permitted, land application of biosolids at the site shall be in accordance with the site permit, the Nutrient Management Plan, and the requirements of Chapter 62-640, F.A.C., as amended on August 29, 2010. *[62-640]*
2. The biosolids from this facility shall only be land applied at sites identified on the Treatment Facility Biosolids Plan, Form 62-640.210(2)(a), submitted with the permit application (no form submitted with the permit application) or revised in accordance with condition E. 3. below, which is incorporated as part of this permit. *[62-640.300(2)]*
3. The Permittee shall notify the Department at least 24 hours before beginning biosolids application at a site not listed in the Treatment Facility Biosolids Plan Form 62-640.210(2)(a). The facility's Treatment

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

Facility Biosolids Plan shall be revised to include the new site and submitted to the Department within 30 days of using the site. The revised Treatment Facility Biosolids Plan shall become part of the treatment facility permit. [62-640.300(2)(c) & 62-640.650(6)(a)]

4. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Nutrient Management Plan(s) approved for the site where the other solids will be applied. [62-640.860]
5. The Permittee shall maintain hauling records to track the transport of biosolids between the treatment facility and the application site. The hauling records for each party shall contain the following information:

Treatment Facility Permittee

1. Date and time shipped and shipment ID
2. Amount of biosolids shipped
3. Concentration of parameters & date of analysis
4. Name and ID number of permitted application site
5. Class of biosolids shipped
6. Signature of certified operator or designee
7. Signature of hauler and name of hauling firm

Site Permittee

1. Date and time received and shipment ID
2. Name and ID number of treatment facility from which biosolids are received
3. Signature of hauler
4. Signature of site manager

A copy of the treatment facility hauling records for each shipment shall be provided upon delivery of the biosolids to the biosolids site manager. The Permittee shall report to the Department within 24 hours of discovery of any discrepancy in delivery of biosolids leaving the treatment facility and arriving at the permitted application site. Treatment facility permittees shall notify the Department, the site manager, and site Permittee within 24 hours of discovery of sending biosolids that did not meet the requirements of Rule 62-640.600, F.A.C., or subsection 62-640.700(5), F.A.C., to a land application site

[62-640.650(4) & (5)]

6. The Permittee shall maintain copies of the Biosolids Application Site Annual Summaries, received from site permittees in accordance with 62-640.650(5)(e), F.A.C., indefinitely. [62-640.650(4)(d)]
7. The Permittee shall submit a Treatment Facility Biosolids Annual Summary to the Department's Southeast District Office on Department Form 62-640.210(2)(b). The summary shall include all biosolids shipped during the period January 1 through December 31 and shall be submitted to the Department by February 19 of the year following the year of application. [62-640.650(5)(c)]

H. Disposal

1. Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(b) & (c)]

I. Incineration or Conversion to a Biofuel or for Bioenergy

1. Incineration or use of biosolids as a biofuel or for bioenergy by gasification shall be in accordance with Chapters 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C., and the Resource Conservation and Recovery Act. [62-640.100(6)(d)]

J. Transfer

1. The Permittee shall not be held responsible for treatment and management violations that occur after its biosolids have been accepted by a permitted biosolids treatment facility with which the source facility has an agreement in accordance with subsection 62-640.880(1)(c), F.A.C., for further treatment, management, or disposal. [62-640.880(1)(b)]
2. The Permittee shall keep hauling records to track the transport of biosolids between the facilities. The hauling records shall contain the following information:

Source Facility

1. Date and time shipped
2. Amount of biosolids shipped
3. Degree of treatment (if applicable)
4. Name and ID Number of treatment facility
5. Signature of responsible party at source facility
6. Signature of hauler and name of hauling firm

Biosolids Treatment Facility or Treatment Facility

1. Date and time received
2. Amount of biosolids received
3. Name and ID number of source facility
4. Signature of hauler
5. Signature of responsible party at treatment facility

A copy of the source facility hauling records for each shipment shall be provided upon delivery of the biosolids to the biosolids treatment facility or treatment facility. The treatment facility Permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of biosolids leaving the source facility and arriving at the biosolids treatment facility or treatment facility.

[62-640.880(4)]

3. If the Permittee intends to accept biosolids from other facilities, a permit revision is required pursuant to paragraph 62-640.880(2)(d), F.A.C. [62-640.880(2)(d)]

### III. GROUND WATER REQUIREMENTS

Groundwater monitoring of the Class I underground injection wells permitted under Department Permit Numbers 0061787-022-UO and 0061787-023-UO is covered in the previously mentioned permit numbers.

### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Section IV is not applicable to this facility.

## **V. OPERATION AND MAINTENANCE REQUIREMENTS**

### **A. Staffing Requirements**

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category II, Class A facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 24 hours/day for 7 days/week. The lead/chief operator must be a Class A operator.

2. The lead/chief operator shall be employed at the plant full time. "Full time" shall mean at least 4 days per week, working a minimum of 35 hours per week, including leave time. A licensed operator shall be on-site and in charge of each required shift for periods of required staffing time when the lead/chief operator is not on-site. An operator meeting the lead/chief operator class for the treatment plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. *[62-699.311(10), (6) and (1)]*

### **B. Capacity Analysis Report and Operation and Maintenance Performance Report Requirements**

1. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5)]*
2. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. *[62-600.735(1)]*

### **C. Recordkeeping Requirements**

1. 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;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the biosolids use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of any required record drawings;
  - h. Copies of the licenses of the current certified operators;
  - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed; and

- j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years.

*[62-620.350, 62-602.650, 62-640.650(4)]*

2. Computer logs maybe used in lieu of printed documents covered in Section Number V. 1. above. The computer documentation must be back-up each month and be saved for a minimum of five years. The data must be recoverable within 24 hours of request. *[62-4.070 (1) & (3)], and [62-4.244 (3) (c)]*

## VI. SCHEDULES

1. The following improvement actions shall be completed according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Identify all permitted biosolids application sites that will be used for land application of biosolids.	By December 31, 2012
B	Cease land applying biosolids at sites not permitted under Chapter 62-640, F.A.C., as amended on August 29, 2010	By January 1, 2013
C	Submit to the Department Form 62-640.210(2)(a), Treatment Facility Biosolids Plan, listing the permitted biosolids application site(s) for land application of the facility's biosolids.	30 days after land application of biosolids at a Department permitted site

*[62-620.320(6)]*

2. The following ongoing construction activities shall be completed according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Influent screens	By November 1, 2014
B	Co-generation modification and expansion	By January 1, 2016

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

3. The Permittee shall modify the fugitive oil and grease (FOG) facility to eliminate design deficiencies according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Submit a draft preliminary design report on the evaluation of the FOG system and recommended modification or improvements	Within 180 days
B	Respond to Department comments	Within 30 days of receipt of the comments
C	Submit the final preliminary design report to the Department with schedule of project improvements.	Within 30 days of receipt of the Department's final comments
D	Submit permit revision application with fee to cover any changes in the permit required by the final report or implement if no permit revision application is needed	Within 90 days of receipt of the Department's final comments

4. The Permittee shall replace or modify the temporary dewatering building according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Submit a draft preliminary design report on the evaluation of the temporary dewatering building and recommend replacement, modifications or improvements	Within 180 days
B	Respond to Department comments	Within 30 days of receipt of the comments
C	Submit the final preliminary design report to the Department with schedule of project improvements	Within 30 days of receipt of the Department's final comments
D	Submit permit revision application with fee to cover any changes in the permit required by the final report or implement if no permit revision application is needed	Within 90 days of receipt of the Department's final comments

5. Prior to placing the modifications to existing facilities into operation or any individual unit processes into operation, for any purpose other than testing for leaks and equipment operation, the Permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Wastewater Facilities or Activities. [62-620.410(7)]
6. Within six months after a facility is placed in operation, the Permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. [62-620.410(6) and 62-620.630(7)]
7. 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

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

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. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS**

1. Regulation of the MDWASD pretreatment program is conducted by the U.S. Environmental Protection Agency (EPA). Pretreatment program implementation, enforcement, and reporting requirements for this facility are included in Part III of the MDWASD Central District WWTP permit issued by the U.S. EPA under Permit Number FL0024805, and apply to this facility as the Permittee.
2. The Permittee shall conduct the monitoring specified pursuant to the requirements in Part III of the MDWASD Central District WWTP permit, FL0024805, for inclusion in the annual report to U.S. EPA and for use in the evaluation of local limits applied to industrial users.

## **VIII. OTHER SPECIFIC CONDITIONS**

5. The Permittee shall comply with all conditions and requirements for reuse contained in their consumptive use permit issued by the Water Management District, if such requirements are consistent with Department rules. *[62-610.800(10)]*
6. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the Permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of biosolids shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8) and 62-640.400(6)]*
7. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*
8. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
9. The operating authority of a collection/transmission system and the Permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
  - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

- d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
- e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

*[62-604.130(5)]*

- 10. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b)]*
- 11. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*
- 12. 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)]*
- 13. The Permittee shall provide verbal notice to the Department's Southeast 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, wastewater biosolids (sludges), or reclaimed water. The Permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Southeast District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
- 14. The Permittee shall provide adequate notice to the Department of the following:
  - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

*[62-620.625(2)]*

## **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



PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

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 biosolids use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
6. If the Permittee wishes to continue an activity regulated by this permit after its expiration date, the Permittee shall apply for and obtain a new permit. [62-620.610(6)]
7. The Permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the Permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]
9. The Permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter 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

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

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;
  - 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, 62-601, 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.

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

- 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 Southeast 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 WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the Permittee becomes aware of the discharge. The Permittee, to the extent known, shall provide the following information to the State Warning Point:
      - (a) Name, address, and telephone number of person reporting;
      - (b) Name, address, and telephone number of Permittee or responsible person for the discharge;
      - (c) Date and time of the discharge and status of discharge (ongoing or ceased);

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

- (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 Southeast 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 Southeast 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., IX.18., or IX.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)]*

PERMITTEE: Miami-Dade Water and Sewer Department  
FACILITY: MDWASD South District WWTF

PERMIT NUMBER: FLA042137

23. Upset Provisions.

- 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.20. 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 West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

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Linda A. Brien, P.G.                      Date  
Water Facilities Program Administrator  
Southeast District

LAB/JAA/mwb:FLA042137-020-DW1P

Attachment(s):  
Discharge Monitoring Report

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

**When Completed mail this report to:** Department of Environmental Protection, 400 N Congress Ave, 3<sup>rd</sup> Floor, West Palm Beach, FL 33401-2913

PERMITTEE NAME: Miami-Dade Water and Sewer Department  
MAILING ADDRESS: PO Box 330316

PERMIT NUMBER: FLA042137

FACILITY: Miami, Florida 33233-316  
LOCATION: MDWASD South District WWTF  
8950 SW 232nd St  
MDWASD SOUTH DISTRICT WWTF  
Miami, FL 33190-1301  
COUNTY: Miami-Dade  
OFFICE: Southeast District

LIMIT: Final  
CLASS SIZE: N/A  
MONITORING GROUP NUMBER: U-001  
MONITORING GROUP DESCRIPTION: Underground injection site monitoring, with Influent  
RE-SUBMITTED DMR: ☐  
NO DISCHARGE FROM SITE: ☐  
MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Monthly  
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Total to Injection Wells)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. CAL-01	Permit Requirement		Report (An. Avg.)	mgd						Daily; 24 hours	Calculated
Flow (Total to Injection Wells)	Sample Measurement										
PARM Code 50050 P Mon. Site No. CAL-01	Permit Requirement		Report (Mo. Avg.)	mgd						Daily; 24 hours	Calculated
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFF-03	Permit Requirement					20.0 (An. Avg.)		mg/L		Daily; 24 hours	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon. Site No. EFF-03	Permit Requirement				60.0 (Max.)	45.0 (Wk. Avg.)	30.0 (Mo. Avg.)	mg/L		Daily; 24 hours	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 B Mon. Site No. EFB-01	Permit Requirement						5.0 (Max.)	mg/L		Daily; 24 hours	Grab
pH (Western Sampling Site)	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-01	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Continuous	Meter

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	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR	TELEPHONE	DATE

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

# DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: MDWASD South District WWTF

MONITORING GROUP NUMBER: U-001

PERMIT NUMBER: FLA042137

MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH (Eastern Sampling Site)	Sample Measurement										
PARM Code 00400 Q Mon. Site No. EFF-02	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s u		Continuous	Meter
Coliform, Fecal (Western Sampling Site)	Sample Measurement										
PARM Code 74055 1 Mon. Site No. EFF-01	Permit Requirement						25 (Max.)	#/100mL		Daily; 24 hours	Grab
Coliform, Fecal (Eastern Sampling Site)	Sample Measurement										
PARM Code 74055 Q Mon. Site No. EFF-02	Permit Requirement						25 (Max.)	#/100mL		Daily; 24 hours	Grab
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 P Mon. Site No. CAL-02	Permit Requirement				75 (Mo.Avg.)			percent		Monthly	Calculated
Chlorine, Total Residual (Western Sampling Site)	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFF-01	Permit Requirement				1.0 (Min.)			mg/L		Continuous	Meter
Chlorine, Total Residual (Eastern Sampling Site)	Sample Measurement										
PARM Code 50060 Q Mon. Site No. EFF-02	Permit Requirement				1.0 (Min.)			mg/L		Continuous	Meter
Flow (Western flow meter site)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-01	Permit Requirement		Report (Mo.Avg.)	mgd						Continuous	Flow Totalizer
Flow (Eastern flow meter site)	Sample Measurement										
PARM Code 50050 R Mon. Site No. FLW-02	Permit Requirement		Report (Mo.Avg.)	mgd						Continuous	Flow Totalizer
Flow (Total Influent Flow)	Sample Measurement										
PARM Code 50050 S Mon. Site No. CAL-03	Permit Requirement		112.5 (An.Avg.)	mgd						Continuous	Flow Totalizer
Flow (Total Influent Flow)	Sample Measurement										
PARM Code 50050 S Mon. Site No. CAL-03	Permit Requirement	Report (3-Mo. Avg.)	Report (Mo. Avg.)	mgd						Continuous	Flow Totalizer

# DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: MDWASD South District WWTF

MONITORING GROUP U-001

PERMIT NUMBER: FLA042137

NUMBER:

MONITORING PERIOD

From:

To:

—

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 P Mon. Site No. CAL-04	Permit Requirement					Report (Mo.Avg.)	percent			Monthly	Calculated
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement										
PARM Code 80082 G Mon. Site No. INF-01	Permit Requirement					Report (Mo.Avg.)	mg/L			Daily; 24 hours	24-hr FPC
Solids, Total Suspended (Influent)	Sample Measurement										
PARM Code 00530 G Mon. Site No. INF-01	Permit Requirement					Report (Mo.Avg.)	mg/L			Daily; 24 hours	24-hr FPC
Flow (East influent flow meter)	Sample Measurement										
PARM Code 50050 T Mon. Site No. FLW-05	Permit Requirement		Report (Mo.Avg.)	mgd						Continuous	Flow Totalizer
Flow (West influent flow meter)	Sample Measurement										
PARM Code 50050 U Mon. Site No. FLW-06	Permit Requirement		Report (Mo.Avg.)	mgd						Continuous	Flow Totalizer



**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

**When Completed mail this report to:** Department of Environmental Protection, 400 N Congress Ave, 3<sup>rd</sup> Floor, West Palm Beach, FL 33401-2913

PERMITTEE NAME: Miami-Dade Water and Sewer Department  
MAILING ADDRESS: PO Box 330316  
Miami, Florida 33233-316

PERMIT NUMBER: FLA042137

FACILITY: MDWASD South District WWTF  
LOCATION: 8950 SW 232nd St  
MDWASD SOUTH DISTRICT WWTF  
Miami, FL 33190-1301  
COUNTY: Miami-Dade  
OFFICE: Southeast District

LIMIT:  
CLASS SIZE: Final  
MONITORING GROUP NUMBER: N/A  
MONITORING GROUP DESCRIPTION: R-001  
RE-SUBMITTED DMR: Reuse system Plant Water  
NO DISCHARGE FROM SITE: ☐  
MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

REPORT FREQUENCY: Monthly  
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Plant Water)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-03	Permit Requirement		Report (Mo. Avg.)	mgd						Continuous	Flow Totalizer
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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):

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

**When Completed mail this report to:** Department of Environmental Protection, 400 N Congress Ave, 3rd Floor, West Palm Beach, FL 33401-2913

PERMITTEE NAME:	Miami-Dade Water and Sewer Department	PERMIT NUMBER:	FLA042137		
MAILING ADDRESS:	PO Box 330316				
	Miami, Florida 33233-316	LIMIT:	Final	REPORT FREQUENCY:	Monthly
FACILITY:	MDWASD South District WWTF	CLASS SIZE:	N/A	PROGRAM:	Domestic
LOCATION:	8950 SW 232nd St	MONITORING GROUP NUMBER:	R-002		
	MDWASD SOUTH DISTRICT WWTF	MONITORING GROUP DESCRIPTION:	Reuse – On-site irrigation		
	Miami, FL 33190-1301	RE-SUBMITTED DMR:	<input type="checkbox"/>		
COUNTY:	Miami-Dade	NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
OFFICE:	Southeast District	MONITORING PERIOD	From: _____ To: _____		

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (on-site irrigation)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-04	Permit Requirement		Report (Mo. Avg.)	mgd						Continuous	Flow Totalizer

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR	TELEPHONE	DATE

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

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

**When Completed mail this report to:** Department of Environmental Protection, 400 N Congress Ave, 3rd Floor, West Palm Beach, FL 33401-2913

PERMITTEE NAME: Miami-Dade Water and Sewer Department  
 MAILING ADDRESS: PO Box 330316  
 Miami, Florida 33233-316  
 FACILITY: MDWASD South District WWTF  
 LOCATION: 8950 SW 232nd St  
 MDWASD SOUTH DISTRICT WWTF

PERMIT NUMBER: FLA042137  
 LIMIT: Final  
 CLASS SIZE: N/A  
 MONITORING GROUP NUMBER: RMP-AA  
 MONITORING GROUP DESCRIPTION: Class AA Biosolids  
 RE-SUBMITTED DMR: ☐  
 NO DISCHARGE FROM SITE: ☐  
 MONITORING PERIOD From: To:

REPORT FREQUENCY: Monthly  
 PROGRAM: Domestic

COUNTY: Miami, FL 33190-1301  
 OFFICE: Miami-Dade  
 Southeast District

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Sludge, Tot, Dry Wt (as N)	Sample Measurement							
PARM Code 78470 + Mon. Site No. RMP-AA	Permit Requirement	Report (Mo. Avg.)	percent				Monthly	Composite
Phosphorus, Sludge, Tot, Dry Wt (as P)	Sample Measurement							
PARM Code 78478 + Mon. Site No. RMP-AA	Permit Requirement	Report (Mo. Avg.)	percent				Monthly	Composite
Potassium, Sludge, Tot, Dry Wt (as K)	Sample Measurement							
PARM Code 78472 + Mon. Site No. RMP-AA	Permit Requirement	Report (Mo. Avg.)	percent				Monthly	Composite
Arsenic Total, Dry Weight, Sludge	Sample Measurement							
PARM Code 49565 + Mon. Site No. RMP-AA	Permit Requirement			41.0 (Mo. Avg.)	75.0 (Max.)	mg/kg	Monthly	Composite
Cadmium, Sludge, Tot, Dry Weight (as Cd)	Sample Measurement							
PARM Code 78476 + Mon. Site No. RMP-AA	Permit Requirement			39.0 (Mo. Avg.)	85.0 (Max.)	mg/kg	Monthly	Composite
Copper, Sludge, Tot, Dry Wt. (as Cu)	Sample Measurement							
PARM Code 78475 + Mon. Site No. RMP-AA	Permit Requirement			1500.0 (Mo. Avg.)	4300.0 (Max.)	mg/kg	Monthly	Composite

\*EITHER THE FECAL COLIFORM LIMIT OR SALMONELLA SP. LIMIT MUST BE MET.

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR	TELEPHONE	DATE

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

# DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: MDWASD South District WWTF

MONITORING GROUP  
NUMBER:  
MONITORING PERIOD  
From:

RMP-AA

PERMIT NUMBER: FLA042137

To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Dry Weight, Sludge	Sample Measurement										
PARM Code 78468 + Mon. Site No. RMP-AA	Permit Requirement					300.0 (Mo. Avg.)	840.0 (Max.)	mg/kg		Monthly	Composite
Mercury, Dry Weight, Sludge	Sample Measurement										
PARM Code 78471 + Mon. Site No. RMP-AA	Permit Requirement					17.0 (Mo. Avg.)	57.0 (Max.)	mg/kg		Monthly	Composite
Molybdenum, Dry Weight, Sludge	Sample Measurement										
PARM Code 78465 + Mon. Site No. RMP-AA	Permit Requirement						75.0 (Max.)	mg/kg		Monthly	Composite
Nickel, Dry Weight, Sludge	Sample Measurement										
PARM Code 78469 + Mon. Site No. RMP-AA	Permit Requirement					420.0 (Mo. Avg.)	420.0 (Max.)	mg/kg		Monthly	Composite
Selenium Sludge Solid	Sample Measurement										
PARM Code 61518 + Mon. Site No. RMP-AA	Permit Requirement					100.0 (Mo. Avg.)	100.0 (Max.)	mg/kg		Monthly	Composite
Zinc, Dry Weight, Sludge	Sample Measurement										
PARM Code 78467 + Mon. Site No. RMP-AA	Permit Requirement					2800.0 (Mo. Avg.)	7500.0 (Max.)	mg/kg		Monthly	Composite
pH	Sample Measurement										
PARM Code 00400 + Mon. Site No. RMP-AA	Permit Requirement						Report (Max.)	s.u.		Monthly	Grab
Solids, Total, Sludge, Percent	Sample Measurement										
PARM Code 61553 + Mon. Site No. RMP-AA	Permit Requirement					Report (Mo. Avg.)	Report (Max.)	percent		Monthly	Composite
Coliform, Fecal	Sample Measurement										
PARM Code 74055 + Mon. Site No. RMP-AA	Permit Requirement		1000.0 (Max.)	MPN/g						Monthly	Grab
Salmonella Sludge	Sample Measurement										
PARM Code 71204 + Mon. Site No. RMP-AA	Permit Requirement		3.0 (Max.)	MPN/4g						Monthly	Grab

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

**When Completed mail this report to:** Department of Environmental Protection, 400 N Congress Ave, 3rd Floor, West Palm Beach, FL 33401-2913

PERMITTEE NAME:	Miami-Dade Water and Sewer Department	PERMIT NUMBER:	FLA042137		
MAILING ADDRESS:	PO Box 330316				
	Miami, Florida 33233-316	LIMIT:	Final	REPORT FREQUENCY:	Monthly
FACILITY:	MDWASD South District WWTF	CLASS SIZE:	N/A	PROGRAM:	Domestic
LOCATION:	8950 SW 232nd St	MONITORING GROUP NUMBER:	RMP-B		
	MDWASD SOUTH DISTRICT WWTF	MONITORING GROUP DESCRIPTION:	Class B Biosolids		
	Miami, FL 33190-1301	RE-SUBMITTED DMR:	<input type="checkbox"/>		
COUNTY:	Miami-Dade	NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
OFFICE:	Southeast District	MONITORING PERIOD	From: _____ To: _____		

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Sludge, Tot, Dry Wt (as N)	Sample Measurement										
PARM Code 78470 + Mon. Site No. RMP-B	Permit Requirement		Report (Max.)	percent						Monthly	Composite
Phosphorus, Sludge, Tot, Dry Wt (as P)	Sample Measurement										
PARM Code 78478 + Mon. Site No. RMP-B	Permit Requirement		Report (Max.)	percent						Monthly	Composite
Potassium, Sludge, Tot, Dry Wt (as K)	Sample Measurement										
PARM Code 78472 + Mon. Site No. RMP-B	Permit Requirement		Report (Max.)	percent						Monthly	Composite
Arsenic Total, Dry Weight, Sludge	Sample Measurement										
PARM Code 49565 + Mon. Site No. RMP-B	Permit Requirement						75.0 (Max.)	mg/kg		Monthly	Composite
Cadmium, Sludge, Tot, Dry Weight (as Cd)	Sample Measurement										
PARM Code 78476 + Mon. Site No. RMP-B	Permit Requirement						85.0 (Max.)	mg/kg		Monthly	Composite
Copper, Sludge, Tot, Dry Wt. (as Cu)	Sample Measurement										
PARM Code 78475 + Mon. Site No. RMP-B	Permit Requirement						4300.0 (Max.)	mg/kg		Monthly	Composite

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR	TELEPHONE	DATE

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

# DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: MDWASD South District WWTF

MONITORING GROUP  
NUMBER:  
MONITORING PERIOD  
From:

RMP-B

PERMIT NUMBER: FLA042137

To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Dry Weight, Sludge	Sample Measurement										
PARM Code 78468 + Mon. Site No. RMP-B	Permit Requirement					840.0 (Max.)	mg/kg			Monthly	Composite
Mercury, Dry Weight, Sludge	Sample Measurement										
PARM Code 78471 + Mon. Site No. RMP-B	Permit Requirement					57.0 (Max.)	mg/kg			Monthly	Composite
Molybdenum, Dry Weight, Sludge	Sample Measurement										
PARM Code 78465 + Mon. Site No. RMP-B	Permit Requirement					75.0 (Max.)	mg/kg			Monthly	Composite
Nickel, Dry Weight, Sludge	Sample Measurement										
PARM Code 78469 + Mon. Site No. RMP-B	Permit Requirement					420.0 (Max.)	mg/kg			Monthly	Composite
Selenium Sludge Solid	Sample Measurement										
PARM Code 61518 + Mon. Site No. RMP-B	Permit Requirement					100.0 (Max.)	mg/kg			Monthly	Composite
Zinc, Dry Weight, Sludge	Sample Measurement										
PARM Code 78467 + Mon. Site No. RMP-B	Permit Requirement					7500.0 (Max.)	mg/kg			Monthly	Composite
pH	Sample Measurement										
PARM Code 00400 + Mon. Site No. RMP-B	Permit Requirement					Report (Max.)	s.u.			Monthly	Grab
Solids, Total, Sludge, Percent	Sample Measurement										
PARM Code 61553 + Mon. Site No. RMP-B	Permit Requirement					Report (Max.)	percent			Monthly	Composite

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

**When Completed mail this report to:** Department of Environmental Protection, 400 N Congress Ave, 3rd Floor, West Palm Beach, FL 33401-2913

PERMITTEE NAME:	Miami-Dade Water and Sewer Department	PERMIT NUMBER:	FLA042137		
MAILING ADDRESS:	PO Box 330316	LIMIT:	Final	REPORT FREQUENCY:	Monthly
	Miami, Florida 33233-316			PROGRAM:	Domestic
FACILITY:	MDWASD South District WWTF	CLASS SIZE:	N/A		
LOCATION:	8950 SW 232nd St	MONITORING GROUP NUMBER:	RMP-Q		
	MDWASD SOUTH DISTRICT WWTF	MONITORING GROUP DESCRIPTION:	Biosolids Quantity		
	Miami, FL 33190-1301	RE-SUBMITTED DMR:	<input type="checkbox"/>		
COUNTY:	Miami-Dade	NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
OFFICE:	Southeast District	MONITORING PERIOD	From:	To:	

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Biosolids Quantity (Distributed & Marketed in FL)	Sample Measurement							
PARM Code B0004 + Mon. Site No. RMP-1	Permit Requirement	Report (Mo. Total)	ton (d)				Monthly	Calculated
Biosolids Quantity (Distributed & Marketed outside FL)	Sample Measurement							
PARM Code B0005 + Mon. Site No. RMP-2	Permit Requirement	Report (Mo. Total)	ton (d)				Monthly	Calculated
Biosolids Quantity (Land-Applied )	Sample Measurement							
PARM Code B0006 + Mon. Site No. RMP-3	Permit Requirement	Report (Mo. Total)	ton (d)				Monthly	Calculated
Biosolids Quantity (Transferred)	Sample Measurement							
PARM Code B0007 + Mon. Site No. RMP-4	Permit Requirement	Report (Mo. Total)	ton (d)				Monthly	Calculated
Biosolids Quantity (Landfilled)	Sample Measurement							
PARM Code B0008 + Mon. Site No. RMP-5	Permit Requirement	Report (Mo. Total)	ton (d)				Monthly	Calculated
Biosolids Quantity (Used as a Biofuel or for Bioenergy)	Sample Measurement							
PARM Code B0009 + Mon. Site No. RMP-6	Permit Requirement	Report (Mo. Total)	ton (d)				Monthly	Calculated

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	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR	TELEPHONE	DATE

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

# DAILY SAMPLE RESULTS - PART B

U-001

Permit Number: FLA042137  
Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

Facility: MDWASD South District WWTF

	Flow (Total to Injection Wells) mgd	BOD, Carbonaceous 5 day, 20C mg/L	Solids, Total Suspended mg/L	pH (Western Sampling Site) s.u. (Min.)	pH (Western Sampling Site) s.u. (Max.)	pH (Eastern Sampling Site) s.u. (Min.)	pH (Eastern Sampling Site) s.u. (Max.)	Coliform, Fecal (Western Sampling Site) #/100mL	Coliform, Fecal (Eastern Sampling Site) #/100mL
Code	50050	80082	00530	00400	00400	00400	00400	74055	74055
Mon. Site	CAL-01	EFF-03	EFB-01	EFF-01	EFF-01	EFF-02	EFF-02	EFF-01	EFF-02
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
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24									
25									
26									
27									
28									
29									
30									
31									
Total									
Mo. Avg.									

## PLANT STAFFING:

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: \_\_\_\_\_



# DAILY SAMPLE RESULTS - PART B

## U-001 and Influent

Permit Number: FLA042137  
Monitoring Period From: \_\_\_\_\_

Facility: MDWASD South District WWTF  
To: \_\_\_\_\_

	Chlorine, Total Residual (Western Sampling Site) mg/L	Chlorine, Total Residual (Eastern Sampling Site) mg/L	Flow (Western flow meter site) mgd	Flow (Eastern flow meter site) mgd	Flow (Total Influent Flow) mgd	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L	Flow (East influent flow meter) mgd	Flow (West influent flow meter) mgd
Code	50060	50060	50050	50050	50050	80082	00530	50050	50050
Mon. Site	EFF-01	EFF-02	FLW-01	FLW-02	CAL-03	INF-01	INF-01	FLW-05	FLW-06
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Total									
Mo. Avg.									

# DAILY SAMPLE RESULTS - PART B

## R-001 and R-002

Permit Number: FLA042137

Facility: MDWASD South District WWTF

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

	Flow (Plant Water) mgd	Flow (on-site irrigation) mgd					
Code	50050	50050					
Mon. Site	FLW-03	FLW-04					
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
Total							
Mo. Avg.							

## 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 28<sup>th</sup> of the month following the monitoring period. 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:

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.

**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.

**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.

**CBOD<sub>5</sub>:** Enter the average CBOD<sub>5</sub> 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 DOMESTIC WASTEWATER FACILITY PERMIT**

November 20, 2012

PERMIT NUMBER: FLA042137

FACILITY NAME: MDWASD South District WWTF

FACILITY LOCATION: 8950 SW 232nd St., MDWASD SOUTH DISTRICT WWTF, Miami, FL 33190-1301  
Miami-Dade County

NAME OF PERMITTEE: Miami-Dade Water and Sewer Department

PERMIT WRITER: Michael Bechtold

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FLA042137-020-DW1P

Application Submittal Date: September 9, 2011

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: County

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity: 112.5 mgd Annual Average Daily Flow

Proposed Increase in Permitted Capacity: 0 mgd Annual Average Daily Flow

Proposed Total Permitted Capacity: 112.5 mgd Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 112.5 mgd Annual Average Daily Flow (AADF) wastewater treatment facility two 66.25 mgd treatment trains consisting of influent screening, four (4) aerated grit chambers, a septic receiving facility, seven (7) oxygenation trains, three (3) cryogenic oxygen plants, ten (10) final clarifiers, a transfer pump station, thirty deep bed filters, nine chlorine contact chambers, a sodium hypochlorite generation facility, eighteen effluent pumps, seventeen (17) deep injection wells, and biosolids stabilization by six (6) primary and six (6) secondary digesters followed by dewatering, sludge drying beds and composting facilities. The plant underwent a major modification that added a new high level disinfection facility, with increased aeration basin capacity and four (4) new clarifiers with a rated capacity of 285 mgd, maximum peak hourly flow.

## 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 reclaimed water to Underground Injection Well System U-001 which consists of 17 Class I injection wells discharging to Class G-IV ground water based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Total to Injection Wells)	mgd	Max	Report	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-600.540(1) & 62-600.740(1)(b)1.a. FAC
		Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
		Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
		Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-600.440(5)(f)3.FAC
pH (Western Sampling Site)	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
pH (Eastern Sampling Site)	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Coliform, Fecal (Western Sampling Site)	#/100mL	Max	25	Single Sample	62-600.440(5)(f)2.FAC
Coliform, Fecal (Eastern Sampling Site)	#/100mL	Max	25	Single Sample	62-600.440(5)(f)2.FAC
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Average	62-600.440(5)(f)1.FAC
Chlorine, Total Residual (Western Sampling Site)	mg/L	Min	1.0	Single Sample	62-600.440(5)(b) or (c) FAC
Chlorine, Total Residual (Eastern Sampling Site)	mg/L	Min	1.0	Single Sample	62-600.440(5)(b) or (c) FAC
Flow (Western flow meter site)	mgd	Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (Eastern flow meter site)	mgd	Max	Report	Monthly Average	62-600.400(3)(b) FAC

Land Application System R-001(Industrial Reuse):

Parameter	Limit	Basis	Rationale
Flow (Plant Water) (mgd)	Report	Annual Average	62-600.400(3)(b) FAC, BPJ
	Report	Monthly Average	62-600.400(3)(b) FAC, BPJ

After the chlorine contact chamber, but prior to discharge down the deep injection wells, the plant water is distributed throughout the WWTF. Since the minimum treatment for U-001 which is monitored at the same location where the effluent is diverted to plant water, only flow monitoring is needed. No other parameter is needed as the monitoring for U-001 provided sufficient monitoring for R-001

Land Application System R-002 (slow-rate public access):

Parameter	Limit	Basis	Rationale
Flow (On-site Irrigation) (mgd)	Report Report	Annual Average Monthly Average	62-600.400(3)(b) FAC, BPJ 62-600.400(3)(b) FAC, BPJ

After the chlorine contact chamber, but prior to discharge down the deep injection wells, portions are used for on-site irrigation with the WWTF plant site. Since the minimum treatment for U-001 which is monitored at the same location where the effluent is diverted to on-site irrigation, only flow monitoring is needed. No other parameter is needed as the monitoring for U-001 provided sufficient monitoring for R-001

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Total Influent Flow)	mgd	Max	112.5	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) FAC
		Max	Report	3-Month Average	62-600.400(3)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Flow (East influent flow meter)	mgd	Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (West influent flow meter)	mgd	Max	Report	Monthly Average	62-600.400(3)(b) FAC
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Locations	-	-	-	All Parameters	62-601, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

#### 4. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FLA042137 has expired. Due to timely submittal of permit renewal application, the former permit conditions are in effect until issuance of this permit renewal.

#### 5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be used as a biofuel or for bioenergy, transferred to Department Approved Biosolids Treatment Facility, distributed and marketed, and land applied or disposed of in a Class I solid waste landfill.

See the table below for the rationale for the Class B biosolids limits and monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	85.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	4300.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Lead, Dry Weight, Sludge	mg/kg	Max	840.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Mercury, Dry Weight, Sludge	mg/kg	Max	57.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Selenium Sludge Solid	mg/kg	Max	100.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Zinc, Dry Weight, Sludge	mg/kg	Max	7500.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
pH	s.u.	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Solids, Total, Sludge, Percent	percent	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Monitoring Frequency	All Parameters				62-640.650(3)(a)4. FAC
Pathogen and vector attraction reduction monitoring	All Parameters				62-640.600 & 650(3)(a)1. FAC

See the table below for the rationale for the Class B cumulative application limits to application zones.

Parameter	Units	Max/ Min	Limit	Rationale
Arsenic	lb/ac	Max	36.6	62-640.700(3)(b) FAC, 3-30-98
Cadmium	lb/ac	Max	34.8	62-640.700(3)(b) FAC, 3-30-98
Copper	lb/ac	Max	1340	62-640.700(3)(b) FAC, 3-30-98
Lead	lb/ac	Max	268	62-640.700(3)(b) FAC, 3-30-98
Mercury	lb/ac	Max	15.2	62-640.700(3)(b) FAC, 3-30-98
Nickel	lb/ac	Max	375	62-640.700(3)(b) FAC, 3-30-98
Selenium	lb/ac	Max	89.3	62-640.700(3)(b) FAC, 3-30-98
Zinc	lb/ac	Max	2500	62-640.700(3)(b) FAC, 3-30-98



See the table below for the rationale for the Class AA biosolids limits and monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	41.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	75.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	39.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	85.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	1500.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	4300.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Lead, Dry Weight, Sludge	mg/kg	Max	300.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	840.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Mercury, Dry Weight, Sludge	mg/kg	Max	17.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	57.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	420.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Selenium Sludge Solid	mg/kg	Max	100.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	100.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Zinc, Dry Weight, Sludge	mg/kg	Max	2800.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	7500.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
pH	s.u.	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Solids, Total, Sludge, Percent	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
		Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Coliform, Fecal	MPN/g	Max	1000.0	Single Sample	62-640.600(1)(a) FAC
Salmonella Sludge	MPN/4g	Max	3.0	Single Sample	62-640.600(1)(a) FAC
Monitoring Frequency		All Parameters			62-640.650(3)(a)4. & .850(4)(c) FAC
Pathogen and vector attraction reduction monitoring		All Parameters			62-640.600 & 650(3)(a)1. FAC

See the table below for the rationale for the biosolids quantities monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Distributed & Marketed in FL)	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. & 850(4)(a) FAC
Biosolids Quantity (Distributed & Marketed outside FL)	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. & 850(4)(a) FAC
Biosolids Quantity (Land-Applied )	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Transferred)	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Used as a Biofuel or for Bioenergy)	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Monitoring Frequency		All Parameters			62-640.650(5)(a) FAC

#### 6. GROUND WATER MONITORING REQUIREMENTS

Groundwater monitoring of the Class I underground injection wells permitted under Department Permit Numbers 0061787-022-UO and 0061787-023-UO are covered in the previously mentioned permit numbers.

#### 7. PERMIT SCHEDULES

I. The following improvement actions shall be completed according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Identify all permitted biosolids application sites that will be used for land application of biosolids.	By December 31, 2012
B	Cease land applying biosolids at sites not permitted under Chapter 62-640, F.A.C., as amended on August 29, 2010.	By January 1, 2013
C	Submit to the Department Form 62-640.210(2)(a), Treatment Facility Biosolids Plan, listing the permitted biosolids application site(s) for land application of the facility's biosolids.	30 days after land application of biosolids at a Department permitted site

[62-620.320(6)]

The recent revision to F.A.C. 62-640 has eliminated use of unpermitted agricultural use sites by January 1, 2013. This schedule will show how the facility will implement the change.

- II. The following ongoing construction activities shall be completed according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Influent screens	By November 1, 2014
B	Co-generation modification and expansion	By January 1, 2016

The previous permit allowed some improvements that has not been completed. This is the update schedule for completion of these improvements.

- III. The Permittee shall modify the FOG facility to eliminate design deficiencies according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Submit a draft preliminary design report on the evaluation of the Fog system and recommended modification or improvements	Within 180 days
B	Respond to Department comments	Within 30 days of receipt of the comments
C	Submit the final preliminary design report to the Department with schedule of project improvements	Within 30 days of receipt of the Department's final comments
D	Submit permit revision application with fee to cover any changes in the permit required by the final report or implement if no permit revision application is needed	Within 90 days of receipt of the Department's final comments

The previous permit allowed the construction of the fugitive oil and grease (FOG) to be constructed without a dissolve air floatation (DAF) unit to see if the DAF Unit is needed. The completed FOG system was inspected by the Department and determined that the FOG system needs to be upgraded or installation of the DAF Unit. The Permittee is given a schedule to design and make the necessary improvements.

- IV. The Permittee shall replace or modify the temporary dewatering building according to the following schedule:

Action Number	Improvement Action	Completion Date
A	Submit a draft preliminary design report on the evaluation of the Fog system and recommended modification or improvements	Within 180 days
B	Respond to Department comments	Within 30 days of receipt of the comments
C	Submit the final preliminary design report to the Department with schedule of project improvements	Within 30 days of receipt of the Department's final comments
D	Submit permit revision application with fee to cover any changes in the permit required by the final report or implement if no permit revision application is needed	Within 90 days of receipt of the Department's final comments

The dewatering building was constructed almost 20 years ago to test the use of centrifuges to dewater the biosolids. The use of the temporary building has exceeded its useful life and needs to be a permanent structure. This schedule is to implement replacement of the temporary structure with a permanent structure. During the design, other modifications and upgrades may be included in the preliminary design report.

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

A. Regulation of the MDWASD pretreatment program is conducted by the U.S. Environmental Protection Agency (EPA). Pretreatment program implementation, enforcement, and reporting requirements for this facility are included in Part III of the MDWASD Central District WWTP permit issued by the U.S. EPA under Permit Number FL0024805, and apply to this facility as the Permittee.

B. The Permittee shall conduct the monitoring specified pursuant to the requirements in Part III of the MDWASD Central District WWTP permit, FL0024805, for inclusion in the annual report to U.S. EPA and for use in the evaluation of local limits applied to industrial users.

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

This permit is not accompanied by an AO and has not entered into a CO with the Department.

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

December 10, 2012

13. DEP CONTACT

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

Michael Bechtold  
Professional Engineer II  
Southeast District Office

400 N Congress Ave 3rd Floor  
West Palm Beach, FL 33401-2913

Telephone No.: (561) 681-6682