



Florida Department of Environmental Protection

Northeast District
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Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

STATE OF FLORIDA WASTEWATER FACILITIES PERMIT FOR TOTAL NITROGEN

PERMITTEE:

JEA

PERMIT NUMBER:

FL0620564

PA FILE NUMBER:

FL0620564 -001-DW1SW

ISSUANCE DATE:

March 11, 2009

EXPIRATION DATE:

March 10, 2014

RESPONSIBLE AUTHORITY:

Mr. Paul K. Steinbrecher, P.E.
Director, Permitting & Regulatory Conformance
JEA
21 W. Church Street
Jacksonville, Florida 32202

WASTEWATER FACILITIES:

Arlington East WRF	FL0026441	Latitude: 30° 20' 49" N	Longitude: 81° 32' 33" W
Beacon Hills WWTF	FL0026778	Latitude: 30° 23' 20" N	Longitude: 81° 35' 15" W
Buckman WWTF	FL0026000	Latitude: 30° 21' 10" N	Longitude: 81° 37' 46" W
District II WWTF	FL0026450	Latitude: 30° 25' 32" N	Longitude: 81° 37' 07" W
Jacksonville Heights WWTF	FL0023671	Latitude: 30° 14' 15" N	Longitude: 81° 45' 05" W
Julington Creek WWTF	FL0043591	Latitude: 30° 06' 17" N	Longitude: 81° 37' 40" W
Mandarin WRF	FL0023493	Latitude: 30° 10' 50" N	Longitude: 81° 37' 35" W
Monterey WWTF	FL0023604	Latitude: 30° 19' 45" N	Longitude: 81° 36' 10" W
Royal Lakes WWTF	FL0026751	Latitude: 30° 12' 42" N	Longitude: 81° 33' 46" W
San Jose WWTF	FL0023663	Latitude: 30° 14' 50" N	Longitude: 81° 37' 13" W
San Pablo WWTF	FL0024767	Latitude: 30° 16' 45" N	Longitude: 81° 26' 15" W

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Southwest District WWTF	FL0026468	Latitude: 30° 13' 55" N	Longitude: 81° 43' 20" W
Woodmere WWTF	FL0026786	Latitude: 30° 23' 14" N	Longitude: 81° 37' 33" W
St. Johns River Power Park	FL0037869	Latitude: 30° 26' 1.16" N	Longitude: 81° 33' 9.98" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to aggregate **Total Nitrogen (TN)** from the above listed wastewater treatment facilities which discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit is issued in conjunction with Administrative Order Number AO 121 NE. This permit includes specific conditions to implement a combined TN wasteload allocation for the above listed domestic wastewater treatment facilities in accordance with the Lower St. Johns River Basin Management Action Plan (BMAP) adopted on November 24, 2008. All other permit requirements and limitations remain in effect and are specified in the individual permits: Arlington East WRF (FL0026441), Beacon Hills WWTF (FL0026778), Buckman WWTF (FL0026000), District II WWTF (FL0026450), Jacksonville Heights WWTF (FL0023671), Julington Creek WWTF (FL0043591), Mandarin WRF (FL0023493), Monterey WWTF (FL0023604), Royal Lakes WWTF (FL0026751), San Jose WWTF (FL0023663), San Pablo WWTF (FL0024767), Southwest District WWTF (FL0026468), Woodmere WWTF (FL0026786), and JEA St. Johns River Power Park (FL0037869). The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

DESCRIPTIONS OF WASTEWATER TREATMENT FACILITIES:

The fourteen existing wastewater treatment facilities (Arlington East WRF (FL0026441), Beacon Hills WWTF (FL0026778), Buckman WWTF (FL0026000), District II WWTF (FL0026450), Jacksonville Heights WWTF (FL0023671), Julington Creek WWTF (FL0043591), Mandarin WRF (FL0023493), Monterey WWTF (FL0023604), Royal Lakes WWTF (FL0026751), San Jose WWTF (FL0023663), San Pablo WWTF (FL0024767), Southwest District WWTF (FL0026468), Woodmere WWTF (FL0026786), and JEA St. Johns River Power Park (FL0037869) discharge the final treated effluent to the Lower St. Johns River Basin:

1. Arlington East WRF (Permit ID: FL0026441):

Arlington East WRF is an existing 20.0 MGD annual average daily flow (AADF) permitted capacity complete mix activated sludge domestic wastewater treatment facility (WWTF). JEA has applied a permit modification for constructions to improve the biological nutrient removal (BNR) treatment level and expand the permitted capacity of the WWTF from 20.00 MGD AADF to 25.00 MGD AADF. The WWTF is located at 1555 Millcoie Road, Jacksonville, Florida 32225, Duval County.

The final treated effluent is either reused via public access spray irrigation system (R-001) or discharged to the St. Johns River from Outfall D-001 (Named D-1AE).

A 25.0 MGD annual average daily flow (AADF) permitted discharge to St. Johns River (Class III marine waters – WBID 2213B) at Discharge Location (D-001) which is approximately 450 feet in length from the shore and discharges at a depth of approximately 31 feet. The point of discharge is located approximately at latitude 30° 20' 49" N, longitude 81° 32' 33" W.

2. Beacon Hills Subdivision WWTF (Permit ID: FL0026778)

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Beacon Hills Subdivision WWTF is an existing activated sludge domestic wastewater treatment facility which can be operated in either the extended aeration mode or the contact stabilization mode. The design capacity in the extended aeration mode and in the contact stabilization mode is 0.836 MGD AADF and 1.30 MGD AADF, respectively. The WWTF is located at 4894 Ashley Manor Way, Jacksonville, Florida 32225, Duval County.

The final treated effluent is discharged to St. John's River (Class III marine waters – WBID 2213C) at Discharge Location (D-001 (Named D-1BH)) which is approximately 150 feet in length and discharges at a depth of approximately 26 feet. The point of discharge is located approximately at latitude 30° 23' 21" N, longitude 81° 31' 11" W.

3. **Buckman WWTF (Permit ID: FL0026000)**

Buckman WWTF is an existing 52.5 MGD annual average daily flow (AADF) permitted capacity activated sludge wastewater treatment facility which can operate in the plug flow or complete mix mode. The WWTF is located at 2221 Buckman Street, Jacksonville, FL 32206-3396, Duval County.

The final treated effluent is discharge to St. Johns River (Class III marine waters – WBID 2213D) at Discharge Location (D-001 (named D-1BM)). The outfall discharges at a depth of approximately 30.5 feet. The point of discharge is located approximately at latitude 30° 21' 00" N, longitude 81° 37' 16" W.

4. **District II WWTF (Permit ID: FL0026450)**

District II WWTF is an existing 10.0 MGD annual average daily flow (AADF) permitted capacity wastewater treatment facility consisting of two existing 5.0 MGD conventional activated sludge domestic wastewater treatment facilities. Major process components include influent screening, grit removal, primary sedimentation, aeration, secondary clarification, chlorination, and dechlorination.

The final treated effluent is either reused via slow-rate restricted public access and industrial user (cooling tower - Northside Generating Station) or discharged to St. Johns River (Class III marine waters – WBID 2213C) at Discharge Location (D-001(named D-1DT)) which is approximately 600 feet in length and discharges at a depth of approximately 13 feet. The point of discharge is located approximately at latitude 30° 24' 29" N, longitude 81° 36' 25" W.

5. **Jacksonville Heights WWTF (Permit ID: FL0023671)**

Jacksonville Heights WWTF is an existing 2.5 MGD annual average daily flow (AADF) permitted capacity conventional activated sludge wastewater treatment facility. Major process components include influent screening, grit removal, aeration, secondary clarification, filtration, ultraviolet disinfection. The WWTF is located at 5957 Tampico Road, Jacksonville, FL 32244, Duval County.

The final treated effluent is discharged to a stormwater canal to Fishing Creek (Class III fresh waters – WBID 2324) to Ortega River (Class III predominantly marine Water – WBID 2213P) to St. Johns River (Class III predominantly marine water – WBID 2213E) at Discharge Location D-001 (Named D-1JH). The point of discharge is located approximately at latitude 30° 14' 15" N, longitude 81° 45' 05" W.

6. **Julington Creek Plantation WWTF (Permit ID: FL0043591)**

Julington Creek Plantation WWTF is an existing 1.0 million gallons per day (MGD) annual average daily flow (AADF) permitted capacity domestic wastewater treatment facility utilizing Modified Ludzal-Ettinger (MLE) process. The facility meets Class I reliability standards. The facility is located at 1638 Davis Pond Boulevard, Jacksonville, Florida, St. Johns County.

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The primary method of disposal is reuse of reclaimed water via spray irrigation to public access reuse sites. The filtered and chlorinated reclaimed water (high level disinfection) shall be conveyed to Golf Course Lake Number 4 and then land applied. The permittee is also authorized to apply reclaimed water to the rapid rate infiltration basin (RIB) system. Surface water discharges, which include the limited wet weather discharge and Apricot Act discharge, are the alternative (backup) disposal methods.

An existing 0.476 MGD annual average daily flow (AADF) or 173.7 million gallons (MG) discharge under the APRICOT Act (Section 403.086(7) of Florida Statutes) to St. Johns River (Class III predominantly marine water – WBID 2213H) at Discharge Location/Outfall D-001 which is 16- inch pipe diameter, 2,200 ft from the shore at a depth of 6 ft below the surface water.

An existing permitted discharge of final treated effluent to St. Johns River (Class III predominantly marine water – WBID 2213H) at Discharge Location/Outfall D-001 which is 16- inch pipe diameter, 2,200 ft from the shore at a depth of 6 ft below the surface water.). The D-002 is utilized only during periods of heavy rainfall and is classified as a limited wet weather discharge (LWWD).

Sum of the effluent discharged from Julington Creek Plantation WWTF to St. Johns River (Class III predominantly marine water – WBID 2213H) from the Outfall D-001/D-001 (named D-1JC). The point of discharge is located approximately at latitude 30 ° 05' 48" N, longitude 81 ° 38' 32" W.

7. **Mandarin Water Reclamation Facility (Permit ID: FL0023493)**

Mandarin WRF is an existing 8.75 MGD annual average daily flow (AADF) permitted capacity advanced secondary domestic wastewater treatment facility. JEA also applies for permit to construct and expand the permitted capacity of the WWTF from 8.75 MGD to 10.00 MGD AADF. The WWTF is located at 10828 Hampton Road, Jacksonville, Florida 32257, Duval County.

The final treated effluent is either discharged to the St. Johns River or reused via public access spray irrigation after receiving high-level disinfection.

The surface water discharge to the St. Johns River (Class III marine waters – WBID 2213G) at discharge location (D-001 (named D-001MD)) which is a 42-inch diameter outfall pipe consisting of approximately 1,180 feet in discharge piping. It includes 100 two-inch diffusers every six feet beginning approximately 500 feet from shore and extending to the end (600 feet) at a depth of approximately 10 feet. The Mandarin WRF outfall point of discharge is located approximately at latitude 30° 11' 1.9" N, longitude 81° 38' 46.2" W.

8. **Monterey WWTF (Permit ID: FL0023604)**

Monterey WWTF is an existing 3.60 MGD annual average daily flow (AADF) permitted capacity activated sludge wastewater treatment facility using Sequencing Batch Reactor (SBR) process. Major process components include influent screening, grit removal, SBR cells, and ultraviolet disinfection. The WWTF is located at 5802 Harris Street, Jacksonville, Florida, Duval County.

The final treated effluent is discharged to the Saint Johns River (Class III marine waters WBID 2213D) at Discharge Location (D-001 (named D-1MO)) from an outfall which is approximately 730 feet in length and discharges at a depth of approximately 10.74 feet. The point of discharge is located approximately at latitude 30° 19' 45" North and longitude 81° 36' 10" West.

9. **Royal Lakes WWTF (Permit ID: FL0026751)**

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Royal Lakes is an existing 3.25 MGD annual average daily flow (AADF) permitted capacity conventional activated sludge WWTF consisting of two steel rings plants (named Plant 1 and Plant 2) that operate simultaneously. The WWTF is located at 5509 Western Way, Jacksonville, Florida 32256, Duval County.

The final treated effluent is discharged to St. Johns River (Class III predominantly marine waters – WBID 2213F) at Discharge Location (D-001 (named D-1RL)) which is 24-inch pipe diameter, located approximately 880 feet in from the shore, and discharges at a depth of approximately 15 feet below the surface water. The point of discharge is located approximately at latitude 30 ° 13' 38" N, longitude 81 ° 37' 28" W.

10. **San Jose WWTF (Permit ID: FL0023663)**

San Jose WWTF is an existing 2.25 MGD AADF permitted capacity complete mix activated sludge treatment facility. Major process components include influent screening, grit removal, aeration, secondary clarification, filtration, ultraviolet disinfection. The WWTF is located at 7128 Balboa Road, Jacksonville, FL 32217, Duval County.

The final treated effluent is discharged to St. Johns River (Class III, marine waters WBID 2213E) at Discharge Location (D-001 (named D-1SJ)) which is approximately 5000 feet in length and discharges at a depth of approximately 10 feet. The point of discharge is located approximately at latitude 30° 14' 50" N, longitude 81° 37' 13" W.

11. **San Pablo WWTF (Permit ID: FL0024767)**

San Pablo WWTF was an existing 0.75 MGD annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment facility which was located at 7128 Balboa Road, Jacksonville, FL 32217, Duval County.

The final treated effluent was discharged to a canal to Pablo Creek (Class III marine waters WBID) to Intracoastal Waterway (Class III marine water WBID) at outfall D-001 (named D-1SP) which is located approximately at latitude 30 ° 16' 45" N, longitude 81 ° 26' 15" W.

San Pablo WWTF has been phased out. The wastewater has been sent to Arlington East WWTF for treatment and disposal/reuse.

12. **Southwest District WWTF (Permit ID: FL0026468)**

Southwest District WWTF is an existing 10.00 MGD AADF conventional (complete mix) activated sludge wastewater treatment facility with influent screening, grit removal, aeration basins, secondary clarification, ultraviolet disinfection, and post aeration. The aeration basins may be operated in complete-mix or plug-flow modes with anoxic zones and recycle lines for nutrient removal. JEA also has applied for permit to construct and expand the permitted capacity of the WWTF from 10.0 MGD to 14.00 MGD AADF. Domestic wastewater residuals are stabilized by aerobic digestion, gravity thickened and hauled to the Buckman Biosolids Disposal Facility (BDF) for disposal. The WWTF is located at 5420 118th Street, Jacksonville, Florida, Duval County.

The final treated effluent is discharged to St. Johns River (Class III Marine waters WBID 2213F) at Discharge Location (D-001(named D-1SW)). The outfall is approximately 1008 feet in length and discharges at a depth of approximately 15 feet. The point of discharge is located approximately at latitude 30° 14' 50" N, longitude 81° 40' 45" W.

13. **Woodmere WWTF (Permit ID: FL0026786)**

PERMITTEE:
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Woodmere WWTF was an existing 0.5 MGD AADF permitted capacity conventional activated sludge domestic wastewater treatment facility which consisted of an influent bar screens, a flow equalization basin, three aeration basins, a secondary clarifier, dual chlorine contact chambers, and a sulfur dioxide dechlorination unit. The WWTF was located at 5710 Edenfield Road, Jacksonville, Florida, Duval County.

The final treat effluent was discharged to St. Johns River (Class III marine waters WBID 2213C) at Discharge Location (D-001 (named D-1WM)) which is approximately 450 feet in length and discharges at a depth of approximately 10 feet below water surface. The point of discharge is located approximately at latitude 30° 23' 14" N, longitude 81° 37' 33" W.

Woodmere WWTF has been phased out. The wastewater has been sent to Arlington East WWTF for treatment and disposal/reuse.

14. JEA St. Johns River Power Park (Permit ID: FL0037869)

St. Johns River Power Park consists of two fossil fuel powered steam electric generating units (Unit 1 and Unit 2) with a total nominal rating of 1360 MW. The facility discharge consists of non-contact cooling water, sanitary treatment system wastewater, coal pile runoff, solid waste runoff, steam generator blowdown, industrial and non-industrial stormwater and cooling tower makeup water. The facility is located off New Berlin Road in Duval County.

The effluent is discharged to the St. John's River (Class III marine waters WWBID 2213C) through Outfall D-001 (**D-001- Main Plant Discharge**), located approximately at latitude 30° 24' 56.37" N, longitude 81° 33' 5.36" W.

RECEIVING WATERBODY:

The receiving waterbody is the Lower St. Johns River (Class III – Predominately Marine Water), HUC# 03080103, WBIDs: 2213A, 2213B, 2213C, 2213D, 2213E, 2213F, 2213G, 2213H.

TOTAL NITROGEN TMDL ALLOCATION:

TOTAL NITROGEN ALLOCATION		
Aggregate Load for JEA WWTFs in accordance with TMDL and BMAP adopted on October 10, 2008.	654,672 Kg/year	1,440,278.4 Lbs/yr

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Pages 1 through 36 of this permit.

PERMITTEE:
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I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Discharge From Wastewater Treatment Facilities (Point Sources):

- During the period beginning on the issuance date and lasting through the expiration date of the permit, the permittee is authorized to discharge the final effluent to the surface water. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.8:

a Arlington East WRF (Permit ID: FL0026441): - Discharge from Outfall D-001 (Called D-1AE):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Arlington East WRF (Before Expansion)	MGD	Maximum	20.00 (AADF)	Report (MADF)	-	Continuous	Recording flow meters	EFD-1AE	See Cond.I.A.3
Flow, Arlington East WRF (After Expansion)	MGD	Maximum	25.00 (AADF)	Report (MADF)	-	Continuous	Recording flow meters	EFD-1AE	See Cond.I.A.5
Flow, Arlington East WRF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1AE	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	Report (Weekly Average)	7 Days/Week	24-hour FPC	EFD-1AE	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2AE	See Cond.I.A.5

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b Beacon Hills Subdivision WWTF (Permit ID: FL0026778)- Discharge from Outfall D-001 (Called D-1BH):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Beacon Hills Subdivision WWTF	MGD	Maximum	0.836 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1BH	See Cond.I.A.3
Flow, Beacon Hills Subdivision WWTF	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1BH	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	8-hour FPC	EFD-1BH	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2BH	See Cond.I.A.5

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c. Buckman WWTF (Permit ID: FL0026000)- Discharge from Outfall D-001 (Called D-1BM):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Buckman WWTF	MGD	Maximum	52.5 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1BM	See Cond.I.A.3
Flow, Buckman WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1BM	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	Report (Weekly Average)	7 Days/Week	24-hour FPC	EFD-1BM	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2BM	See Cond.I.A.5

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d. District II WWTF (Permit ID: FL0026450)- Discharge from Outfall D-001 (Called D-1DT):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, District II WWTF	MGD	Maximum	10.0 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1DT	See Cond.I.A.3
Flow, District II WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1DT	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	Report (Weekly Average)	5 Days/Week	24-hour FPC	EFD-1DT	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2DT	See Cond.I.A.5

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e. Jacksonville Heights WWTF (Permit ID: FL0023671) -Discharge from Outfall D-001 (Called D-1JH):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Jacksonville Heights WWTF	MGD	Maximum	2.50 (AADF)	Report (MADF)	-	Continuous	Recording flow meters	EFD-1JH	See Cond.I.A.3
Flow, Jacksonville Heights WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1JH	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	16-hour FPC	EFD-1JH	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2JH	See Cond.I.A.5

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f. Julington Creek Plantation WWTF (Permit ID: FL0043591)-Discharge from Outfall D-001 and D-002 (Called D-1JC):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, JCP WWTF, Apricot Act Discharge	MGD	Maximum	0.476 (AADF)	Report (MADF)	-	Continuous	Recording flow meters	EFD-1AA	See Cond.I.A.3
Flow, JCP WWTF (Total Volume)	MG	Maximum	173.7 (Annual Total)	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1AA	
Total Nitrogen, as N, Apricot Act Discharge	mg/L	Maximum	Report	7.50 (Monthly Average)	-	Daily during Discharge	Grab	EFD-1AA	See Cond.I.A.5
Total Nitrogen, as N Apricot Act Discharge	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2AA	See Cond.I.A.5
Flow, JCP WWTF, Wet Weather Discharge	MGD	Maximum	Report (AADF)	Report (MADF)	-	Continuous	Recording flow meters	EFD-2WD	See Cond.I.A.3
Flow, JCP WWTF, Wet Weather Discharge (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1WD	
Total Nitrogen, as N Wet Weather Discharge	mg/L	Maximum	Report	Report (Monthly Average)	-	Daily during Discharge	Grab	EFD-2WD	See Cond.I.A.5
Total Nitrogen, as N Wet Weather Discharge	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2WD	See Cond.I.A.5

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			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Total Nitrogen, as N Discharge from JCP WWTF			Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-JCS	See Cond.I.A.5

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g. Mandarin Water Reclamation Facility (Permit ID: FL0023493)-Discharge from Outfall D-001 (Called D-1MD):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Mandarin WRF (Before Expansion)	MGD	Maximum	8.75 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1MD	See Cond.I.A.3
Flow, Mandarin WRF (After Expansion)	MGD	Maximum	10.0 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1MD	See Cond.I.A.5
Flow, Mandarin WRF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1MD	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	Report (Weekly Average)	5 Days/Week	24-hour FPC	EFD-1MD	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2MD	See Cond.I.A.5

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h. Monterey WWTF (Permit ID: FL0023604) -Discharge from Outfall D-001 (Called D-1MT):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Monterey WWTF	MGD	Maximum	3.60 (AADF)	Report (MAFDF)	-	Continuous	Recording flow meters	EFD-1MT	See Cond.I.A.3
Flow, Monterey WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1MT	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	16-hour FPC	EFD-1MT	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2MT	See Cond.I.A.5

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i. Royal Lakes WWTF (Permit ID: FL0026751) -Discharge from Outfall D-001 (Called D-1RL):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Royal Lakes WWTF	MGD	Maximum	3.25 (AADF)	Report (MA DF)	-	Continuous	Recording flow meters	EFD-1RL	See Cond.I.A.3
Flow, Royal Lakes WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1RL	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	16-hour FPC	EFD-1RL	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2RL	See Cond.I.A.5

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j. San Jose WWTF (Permit ID: FL0023663)-Discharge from Outfall D-001 (Called D-1SJ):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, San Jose WWTF	MGD	Maximum	2.25 (AADF)	Report (MADF)	-	Continuous	Recording flow meters	EFD-1SJ	See Cond.I.A.3
Flow, San Jose WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1SJ	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	16-hour FPC	EFD-1SJ	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2SJ	See Cond.I.A.5

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k. San Pablo WWTF (Permit ID: FL0024767)-Discharge from Outfall D-001 (Called D-1SP):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, San Pablo WWTF	MGD	Maximum	0.75 (AADF)	Report (MAFDF)	-	Continuous	Recording flow meters	EFD-1SP	See Cond.I.A.3
Flow, San Pablo WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1SP	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	8-hour FPC	EFD-1SP	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2SP	See Cond.I.A.5

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I. Southwest District WWTF (Permit ID: FL0026468) - Discharge from Outfall D-001 (Called D-1SW):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Southwest District WWTF(Before Expansion)	MGD	Maximum	10.0 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1SW	See Cond.I.A.3
Flow, Southwest District WWTF(After Expansion)	MGD	Maximum	14.0 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1SW	See Cond.I.A.3
Flow, Southwest District WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1SW	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	Report (Weekly Average)	5 Days/Week	24-hour FPC	EFD-1SW	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2SW	See Cond.I.A.5

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m. Woodmere WWTF (Permit ID: FL0026786) - Discharge from Outfall D-001 (Called D-1WM):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Woodmere WWTF	MGD	Maximum	0.50 (AADF)	Report (MAF)	-	Continuous	Recording flow meters	EFD-1WM	See Cond.I.A.3
Flow, Woodmere WWTF (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1WM	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	8-hour FPC	EFD-1WM	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2WM	See Cond.I.A.5

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n. JEA St. Johns River Power Park (Permit ID: FL0037869) - Discharge from Outfall D-001 – Main Plant Discharge (Called D-1PP):

			Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/Min	Annual	Monthly	Weekly	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, St. Johns River Power Park	MGD	Maximum	Report (AADF)	Report (MA DF)	-	Continuous	Recording flow meters	FLW-1 FLW-2	See Cond.I.A.3
Flow, St. Johns River Power Park , (Total Volume)	MG	Maximum	-	Report (Monthly Total Volume Flow)	-	Monthly	Calculated	CAL-1PP	
Total Nitrogen, as N	mg/L	Maximum	Report	Report (Monthly Average)	-	Weekly	24-hour FPC	EFD-1PP EFD-2PP	See Cond.I.A.5
Total Nitrogen, as N	-		Report (Annual Mass Load) (Lbs/yr)	Report (Monthly Mass Load) (Lbs/Mon)	-	Monthly	Calculation	CAL-2PP	See Cond.I.A.5

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

Monitoring Location Site Number	Description of Monitoring Location
EFD-1AE	Arlington East WRF: the same location with EFD-1: sample point immediately after final treatment before discharge to the surface water from the Outfall D-1AE (Outfall D-001 of the WWTF)
CAL-1AE	Calculated total volume discharge in a given month from the Outfall D-1AE (Arlington East WWTF)
CAL-2AE	Calculated mass of total nitrogen discharge from Outfall D-1AE
EFD-1BH	At Beacon Hill WWTF: the same location with EFD-1: sample point immediately after final treatment before discharge to the surface water from the Outfall D-1BH (Outfall D-001 of the WWTF)
CAL-1BH	Calculated total volume discharge in a given month from the Outfall D-1BH
CAL-2BH	Calculated mass of total nitrogen discharge from Outfall D-1BH
EFD-1BM	At Buckman WWTF: the same location with EFF-1: sample point immediately after final treatment before discharge to the surface water from the Outfall D-1BM (Outfall D-001 of the WWTF)
CAL-1BM	Calculated total volume discharge in a given month from the Outfall D-1BH
CAL-2BM	Calculated mass of total nitrogen discharge from Outfall D-1BH
EFD-1DT	At District II WWTF: the same location with EFF-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1BT (Outfall D-001 of the WWTF)
CAL-1DT	Calculated total volume discharge in a given month from the Outfall D-1BH
CAL-2DT	Calculated mass of total nitrogen discharge from Outfall D-1BH
EFD-1JH	At Jacksonville Heights WWTF: the same location with EFD-1: sample point immediately after final treatment before discharge to the surface water from the Outfall D-1JH (Outfall D-001 of the WWTF)
CAL-1JH	Calculated total volume discharge in a given month from the Outfall D-1JH
CAL-2JH	Calculated mass of total nitrogen discharge from Outfall D-1JH
EFD-1AA	Julington Creek WWTF, the same location with EFD-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-001 – (Apricot Act Discharge)
CAL-1AA	Calculated total volume discharge in a given month from the Outfall D-001
CAL-2AA	Calculated mass of total nitrogen discharge from Outfall D-001
EFD-2WD	Julington Creek WWTF, the same location with EFD-2:sample point immediately after final treatment before discharge to the surface water from the Outfall D-002 – (Limited Wet Weather Discharge)

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Monitoring Location Site Number	Description of Monitoring Location
CAL-1WD	Calculated total volume discharge in a given month from the Outfall D-002
CAL-2WD	Calculated mass of total nitrogen discharge from Outfall D-002
CAL-JCS	Summation of total nitrogen discharge from Julington Creek WWTF from Outfall D-1JC (Equivalent with the CAL-6 of the Julington Creek WWTF – FL0043591)
EFD-1MD	Mandarin WRF, the same location with EFB-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1MD (Outfall D-001 of the WWTF)
CAL-1MD	Calculated total volume discharge in a given month from the Outfall D-1MD
CAL-2MD	Calculated mass of total nitrogen discharge from Outfall D-1MD
EFD-1MT	Monterey WWTF, the same location with EFF-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1MT (Outfall D-001 of the WWTF)
CAL-1MT	Calculated total volume discharge in a given month from the Outfall D-1MT
CAL-2MT	Calculated mass of total nitrogen discharge from Outfall D-1MT
EFD-1RL	Royal Lake WWTF, the same location with EFD-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1RL (Outfall D-001 of the WWTF)
CAL-1RL	Calculated total volume discharge in a given month from the Outfall D-1RL
CAL-2RL	Calculated mass of total nitrogen discharge from Outfall D-1RL
EFD-1SJ	San Jose WWTF, the same location with EFF-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1SJ (Outfall D-001 of the WWTF)
CAL-1SJ	Calculated total volume discharge in a given month from the Outfall D-1SJ
CAL-2SJ	Calculated mass of total nitrogen discharge from Outfall D-1SJ
EFD-1SP	San Pablo WWTF, the same location with EFA-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1SP (Outfall D-001 of the WWTF)
CAL-1SP	Calculated total volume discharge in a given month from the Outfall D-1SP
CAL-2SP	Calculated mass of total nitrogen discharge from Outfall D-1SP
EFD-1SW	Southwest WWTF, the same location with EFB-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1SW (Outfall D-001 of the WWTF)
CAL-1SW	Calculated total volume discharge in a given month from the Outfall D-1SW
CAL-2SW	Calculated mass of total nitrogen discharge from Outfall D-1SW
EFD-1WM	Woodmere WWTF, the same location with EFA-1:sample point immediately after final treatment before discharge to the surface water from the Outfall D-1WM

Monitoring Location Site Number	Description of Monitoring Location
	(Outfall D-001 of the WWTF)
CAL-1WM	Calculated total volume discharge in a given month from the Outfall D-1WM
CAL-2WM	Calculated mass of total nitrogen discharge from Outfall D-1WM
FLW-1	St. Johns River Power Park, the flow monitoring location of the feedwater withdrawn from Northside discharge for the St. Johns River Power Park cooling tower.
FLW-2	St. Johns River Power Park, the flow monitoring location for the combined discharge of central wastewater treatment facility effluent and St. Johns River Power Park Cooling tower blowdown prior to comingling with Northside effluent.
CAL-1PP	Calculated total volume discharge in a given month from the Outfall D-1PP (outfall D-001-Main-Plant Discharge)
EFD-1PP	Sample point is the same location of INF-1, which is at the intake structure for cooling towers at St. Johns River Power Park.
EFD-2PP	Sample point is the same location of EFF-1 which is at the Main Plant Discharge prior to entry into the Northside discharge channel.
CAL-2PP	Calculated mass of total nitrogen discharge from Outfall D-1PP

3. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6)]
4. Florida water quality criteria and standards shall not be violated as a result of the discharge. [62-620.320(9)][62-302.510(5)]
5. The Permittee, JEA, shall calculate the mass loads of total nitrogen from each treatment facility listed Condition I.A.1. Results of the calculation shall be reported and submitted in the DMR. The monthly mass load and annual mass loads of total nitrogen for each treatment facility shall be calculated as follows:

- Monthly Mass Load of TN at each treatment facility (ML)

$$\text{ML (Lbs/Month)} = (\text{Flow } \left(\frac{\text{MG}}{\text{Mon}} \right)) \times (\text{TN } \left(\frac{\text{mg}}{\text{L}} \right)) \times 8.34 \left(\frac{\text{L Lbs}}{\text{MG mg}} \right)$$

Where:

ML = Monthly mass load of total nitrogen from each treatment facility; (Lbs/month)

Flow = Monthly volume of effluent discharged from each outfall; (MG)

TN = Concentration of TN monitored at each WWTF; (mg/L)

The annual mass load is computed using a rolling twelve (12) – month period. The calculations shall be the sum of the twelve most recent monthly mass loadings of total nitrogen or total phosphorus starting from the second month following permit issuance month.

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B. Total Maximum Daily Load of Total nitrogen (as N) Discharge from the point sources

1. During the period beginning on the issuance date and lasting through the expiration date of the permit, the permittee is allowed to aggregate total nitrogen (TN) allocation of the fourteen wastewater treatment facilities (listed in Permit Condition I.A.1) which discharge to the St Johns River (Class III marine Water) D-SUM. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.8

		Effluent Limitations			Monitoring Requirements			
Parameter	Max/Min	Annual Total Mass ¹ Load	Monthly Total Mass Load	Weekly Mass Load	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Total Nitrogen, as N, total aggregate from fourteen JEA's WWTFs	Maximum	1,440,278.4 (Lbs/yr) or (654,672 Kg/yr)	Report (Lbs/mon)	-	Monthly	Calculation	CAL-SUM	See Cond.I.B. 3 and 4

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

Monitoring Location Site Number	Description of Monitoring Location
CAL-SUM	Calculated total mass load of total nitrogen (Lbs/yr) (Rolling 12 month total) from the fourteen wastewater treatment facilities. (CAL-SUM = CAL-2AE + CAL -2BH + CAL-2BM + CAL-2DT + CAL-2JH + CAL-2JCS + CAL-2MD + CAL-2MT + CAL-2RL + CAL-2SJ + CAL-2SP + CAL-2SW + CAL-2WM + CAL-2PP)

3. The permittee, JEA, is allowed to aggregate the total nitrogen (TN) allocations of its fourteen treatment facilities. The total combined annual mass loads of total nitrogen the fourteen treatment facilities shall not exceed 654,672 Kg/year (1,440,278.4 Lbs/yr). If JEA meets the annual aggregate limit (rolling over 12 months), JEA and each of its fourteen treatment facilities are in compliance with this permit. If the annual aggregate limits are exceeded, the JEA is out-of compliance.
4. The annual aggregate limit for total nitrogen of 654,672 Kg/year (1,440,278.4 Lbs/yr) for the fourteen treatment facilities is held in abeyance until the final compliance date listed in Section III.(2)(c) of the Administrative Order (AO 121 NE) issued in conjunction with this permit is complete.
5. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method to assure compliance with applicable water quality standards and effluent limitations in accordance with 40 CFR (Code of Federal Regulations) Part 136. All monitoring shall be representative of the monitored activity. [62-620.320(6)]
6. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled “Florida Department of Environmental Protection Table as Required By Rule 62-4.246(4) Testing Methods for Discharges to Surface Water” is available at <http://www.dep.state.fl.us/labs/guidance/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 a MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and

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- c) If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

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 in accordance with 40 CFR 136. [62-4.246, 62-160]

7. 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)]
8. 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. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

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

DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

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

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

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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 Northeast District Office at the address specified below:

Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

Phone Number - 904-807-3300
FAX Number - 904-448-4366

All FAX copies shall be followed by original copies. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]

II. RESIDUALS MANAGEMENT REQUIREMENTS

Residuals management requirements are specified in the individual permits: Arlington East WRF(FL0026441), Beacon Hills WWTF (FL0026778), Buckman WWTF (FL0026000), District II WWTF (FL0026450), Jacksonville Heights WWTF (FL0023671), Julington Creek WWTF (FL0043591), Mandarin WRF (FL0023493), Monterey WWTF (FL0023604), Royal Lakes WWTF (FL0026751), San Jose WWTF (FL0023663), San Pablo WWTF(FL0024767), Southwest District WWTF (FL0026468), and Woodmere WWTF (FL0026786).

III. GROUND WATER REQUIREMENTS

Ground Water requirements are specified in the individual permits: Arlington East WRF(FL0026441), Beacon Hills WWTF (FL0026778), Buckman WWTF (FL0026000), District II WWTF (FL0026450), Jacksonville Heights WWTF (FL0023671), Julington Creek WWTF (FL0043591), Mandarin WRF (FL0023493), Monterey WWTF(FL0023604), Royal Lakes WWTF (FL0026751), San Jose WWTF (FL0023663), San Pablo WWTF(FL0024767), Southwest District WWTF (FL0026468), and Woodmere WWTF (FL0026786).

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Additional Reuse and land application requirements are specified in the individual permits: Arlington East WRF(FL0026441), Beacon Hills WWTF (FL0026778), Buckman WWTF (FL0026000), District II WWTF (FL0026450), Jacksonville Heights WWTF (FL0023671), Julington Creek WWTF (FL0043591), Mandarin WRF (FL0023493), Monterey WWTF (FL0023604), Royal Lakes WWTF (FL0026751), San Jose WWTF (FL0023663), San Pablo WWTF(FL0024767), Southwest District WWTF (FL0026468), and Woodmere WWTF (FL0026786).

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V. OPERATION AND MAINTENANCE REQUIREMENTS

1. Staffing hour requirements are specified in Section V.1 of the individual permits: Arlington East WRF(FL0026441), Beacon Hills WWTF (FL0026778), Buckman WWTF (FL0026000), District II WWTF (FL0026450), Jacksonville Heights WWTF (FL0023671), Julington Creek WWTF (FL0043591), Mandarin WRF (FL0023493), Monterey WWTF (FL0023604), Royal Lakes WWTF (FL0026751), San Jose WWTF (FL0023663), San Pablo WWTF(FL0024767), Southwest District WWTF (FL0026468), and Woodmere WWTF (FL0026786).
2. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility:
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and 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 residuals 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 the facility record drawings;
 - h. Copies of the licenses of the current certified operators; and
 - 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 certification 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; tests performed and samples taken; and major repairs made. 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.

[62-620.350, 06/01/01]

VI. SCHEDULES

This permit is issued in conjunction with Administrative Order (AO) No. 121 NE. The AO contains the requirements and schedule for compliance with total maximum daily load of total nitrogen. *[62-620.320(1) and (2)] [62-4.070(3)]*

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VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

Industrial pretreatment program requirements are specified in the individual permits: Arlington East WRF(FL0026441), Beacon Hills WWTF (FL0026778), Buckman WWTF (FL0026000), District II WWTF (FL0026450), Jacksonville Heights WWTF (FL0023671), Julington Creek WWTF (FL0043591), Mandarin WRF (FL0023493), Monterey WWTF (FL0023604), Royal Lakes WWTF (FL0026751), San Jose WWTF (FL0023663), San Pablo WWTF(FL0024767), Southwest District WWTF (FL0026468), and Woodmere WWTF (FL0026786). [62-625.500]

VIII. REOPENER CLAUSE

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement.

IX. OTHER SPECIFIC CONDITIONS

1. The permittee shall apply for renewal of this permit at least 180 days before the expiration date of the permit using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. The existing permit shall not expire until the Department has taken final action on the application renewal in accordance with the provisions of 62-620.335(3) and (4), F.A.C. [62-620.335(1)-(4)]
2. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. [62-620.320(9) and 62-302.500(2)(e)]

X. 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)]

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3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4)]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6)]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
 - 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)]

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10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility 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 and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2) 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, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.

- a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
- b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
- c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
- d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
- e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
- f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220 and 62-160.330, F.A.C.

[62-620.610(18)]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]

20. The permittee shall report to the Department 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,

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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 Department by calling the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
 - a) Name, address, and telephone number of person reporting;
 - b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - e) Estimated amount of the discharge;
 - f) Location or address of the discharge;
 - g) Source and cause of the discharge;
 - h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - i) Description of area affected by the discharge, including name of water body affected, if any; and
 - j) Other persons or agencies contacted.
 2. Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department 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 shall waive the written report.

[62-620.610(20)]

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

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

[62-620.610(22)]

23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 1. An upset occurred and 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 X. 20. of this permit; and
 4. The permittee complied with any remedial measures required under Permit Condition X. 5. of this permit.
- b. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.

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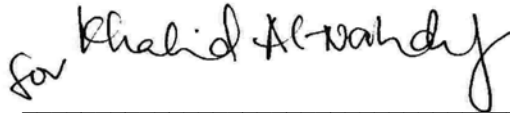
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- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23)]

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

A handwritten signature in black ink, appearing to read "for Khalid Al-wahdy", is written over a horizontal line.

Melissa M. Long, P.E.
Water Facilities Administrator

DATE: March 11, 2009