



MANATEE COUNTY UTILITIES DEPARTMENT

MANATEE COUNTY SOUTHEAST REGIONAL
WATER RECLAMATION FACILITY
3331 LENA RD
Bradenton, FL 34211

UPDATED CAPACITY ANALYSIS REPORT

FINAL | AUGUST 2020

Prepared by:



CA8571

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CURRENT PERMITS

FDEP Domestic Wastewater Facility Permit Number: FLA012618
Effective Date: NOVEMBER 16, 2015 | Expiration Date: NOVEMBER 15, 2025
GMS Identification Number: Not Applicable to this Facility

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Permittee Certification

Manatee County is fully aware and intends to comply with the recommendations and schedules included in this report.

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Professional Engineer Certification

The information contained in this report is true and correct to the best of our knowledge, this report was prepared in accordance with sound engineering principles, and Carollo Engineers, Inc. has discussed the recommendations and schedules with Manatee County.

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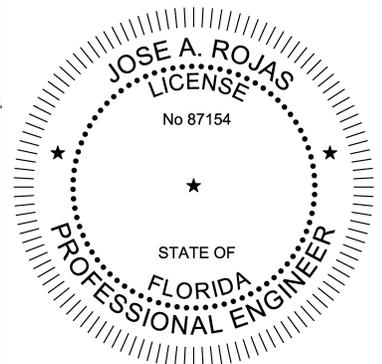


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Chapter 1

INTRODUCTION

Manatee County owns and operates the Southeast Regional Water Reclamation Facility (SERWRF), which is located at 3331 Lena Road, Bradenton, FL, as shown in **Figure 1-1**. This plant is one of the Manatee County's three water reclamation facilities and it was brought to service in 1986. The SERWRF is an 11 million gallons per day (mgd) three month rolling average daily flow (TMRADF) Type I conventional activated sludge domestic wastewater treatment facility. The SERWRF is operated under domestic wastewater facility permit number FLA012618 issued by the Florida Department of Environmental Protection (FDEP) on August 10, 2015, which expires November 15, 2025. The treatment process at the SERWRF consists of preliminary screening and grit removal, secondary biological nutrient removal (BNR) activated sludge, and tertiary filtration and high-level disinfection.

Rule 62-600.405 of the Florida Administrative Code (F.A.C), Planning for Wastewater Facilities Expansion, requires owners of municipal wastewater treatment facilities to provide timely planning, design, and construction of facilities necessary to provide proper treatment and reuse or disposal of domestic wastewater and management of domestic wastewater residuals. At the same time, this rule requires that flows being treated at the wastewater facilities be routinely compared with the permitted capacities of the treatment, residuals, reuse, and disposal facilities. The permit requires update the CAR five years from the date of issuance in accordance with the rules established in ruler 62-600.405.



Figure 1-1 Manatee County SERWRF – Location Map

1.1 Facilities Description

The influent flow to the SERWRF is received through two raw influent streams, the Main Raw Influent and the Lakewood Ranch Raw Influent. The Main Raw Influent includes leachate flow from the Lena Road Solid Waste Landfill located adjacent to the SEWRF. The total combined influent to the SERWRF in 2019 was approximately 6.89 mgd Annual Average Daily Flow (AADF). **Figure 1-2** shows the liquid stream flow diagram for the SERWRF and identifies the major treatment, residuals, reuse, and disposal components. The facility consists of a headworks with three mechanical bar screens, two forced vortex grit removal units, a wet scrubber for odor control, a flow splitter box, two equalization basins with diffused air, three biological basins containing an anoxic/aeration sections, four clarifiers, return activated sludge pump station, two flash mix basins, two flocculation tanks, four filters and four chlorine contact chambers. Treated effluent is pumped to storage or reuse customers.

A biosolids facility is also within the SERWRF. It consists of a sludge wetwell, two gravity belt thickeners, two aerated sludge storage tanks, three belt filter presses, a biosolids dryer system, two storage silos, a regenerative thermal oxidizer, cake pumps and a natural gas transmission line to the biosolids building to provide fuel to the dryer system as well as a landfill gas line from the existing flare burner to the biosolids dryer system building. The facility receives dewatered biosolids from the SERWRF, the North Regional Water Reclamation Facility (NRWRF) and the Southwest Regional Water Reclamation Facility (SWRWRF). **Table 1-1** presents an inventory of the liquid treatment facilities.

1.1.1 Preliminary Treatment

Pumped raw wastewater receives preliminary treatment at the headworks facility. Preliminary treatment consists of a headworks facility with two influent transit time flow meters, three mechanically cleaned bar screens, two forced flow vortex de-gritting units, and a wet scrubber for odor control. The wastewater flows from the headworks to a flow splitter box, which directs the influent flow and returned activated sludge (RAS) to three anoxic/aeration basins for biological treatment. The splitter box also helps direct the peak excess flow to the two flow equalization basins.

1.1.2 Flow Equalization

Following preliminary treatment, Any peak excess flow is directed to the two flow equalization basins from the splitter box. The flow equalization basins are used to dampen daily flow variations and provide a more constant flow rate to downstream processes. The equalization basins use diffused air to mix and pretreat excess influent flow and leachate from Manatee County's landfill. Following preliminary treatment, flows can transfer to and from the equalization basins.

1.1.3 Biological Treatment

Secondary treatment is achieved in three oxidation ditch-style BNR activated sludge processes, each operating in a Modified Ludzack-Ettinger (MLE) configuration, for a total biological treatment volume of 10.4 million gallons (MG). The anoxic basins also receive the internal recycle from the aeration basins. Biological nitrogen removal takes place in the anoxic basins, while BOD reduction is achieved in the aeration basins.

1.1.4 Clarification

Following biological treatment, the flow is directed to a distribution box that splits the flow to four circular draft tube clarifiers, each with a diameter of 110 ft. The RAS from the final clarifiers is collected in a sludge wet well, then pumped to the splitter box, and returned to the biological treatment to maintain the organisms needed for adequate treatment. Waste activated sludge (WAS) is sent from the final clarifiers by the WAS pumping system to the gravity belt thickeners.

1.1.5 Filtration

Tertiary treatment is achieved following clarification. Clarified effluent flow is directed to two flocculation tanks, and four granular media traveling bridge automatic self-backwashing effluent filters. Filtration at this stage provides the removal of suspended solids to improve disinfection efficiency.

1.1.6 Disinfection

The SERWRF provides high-level disinfection in accordance with FDEP requirements for public access reuse. The filter effluent is finally directed to chlorine contact chambers and disinfected with sodium hypochlorite. The SERWRF is equipped with four chlorine contact chambers (CCC) with 355,500 gallons total volume. The disinfecting agent is liquid sodium hypochlorite.

1.1.7 Water Reuse Storage and Distribution

After effluent is disinfected and meets the regulatory standards for reuse water, the effluent is discharged either to the slow-rate Public Access Reuse System or on-site reject ponds. The SERWRF serves as a source facility for up to 11.0 mgd AADF of Part III reclaimed water which is transferred to the Manatee County Reuse System (R-001). Flow not meeting reuse standards is diverted to a 6.3 million gallon (MG) unlined reject pond (R-002) or a 6.0 MG lined reject pond, before returning to the plant for treatment. Reject water from the unlined reject pond is returned to the plant headworks, while the reject water from the lined pond is returned to the splitter box for subsequent treatment.

1.1.8 Sludge Handling

WAS pumps remove WAS from the secondary clarifiers and pumps it to the on-site gravity belt thickeners. Thickened sludge is transferred to two aerobic sludge holding tanks (SHT) for further stabilization. Downstream of the SHT, sludge is dewatered with three belt filter presses and then transferred to the biosolids treatment facility located onsite. The biosolids are either dried with a direct heat dryer to produce a Class AA product or disposed of in a Class I solid waste landfill adjacent to the SERWRF (Lena Road Landfill). The dryer processes biosolids from all three Manatee County water reclamation facilities. Any solids cake exceeding the capacity of the dryer is hauled to the Lena Road Landfill at an additional cost to the facility. **Figure 1-3** shows the solids flow diagram and identifies the major components and **Table 1-2** provides an inventory of the solids stream.

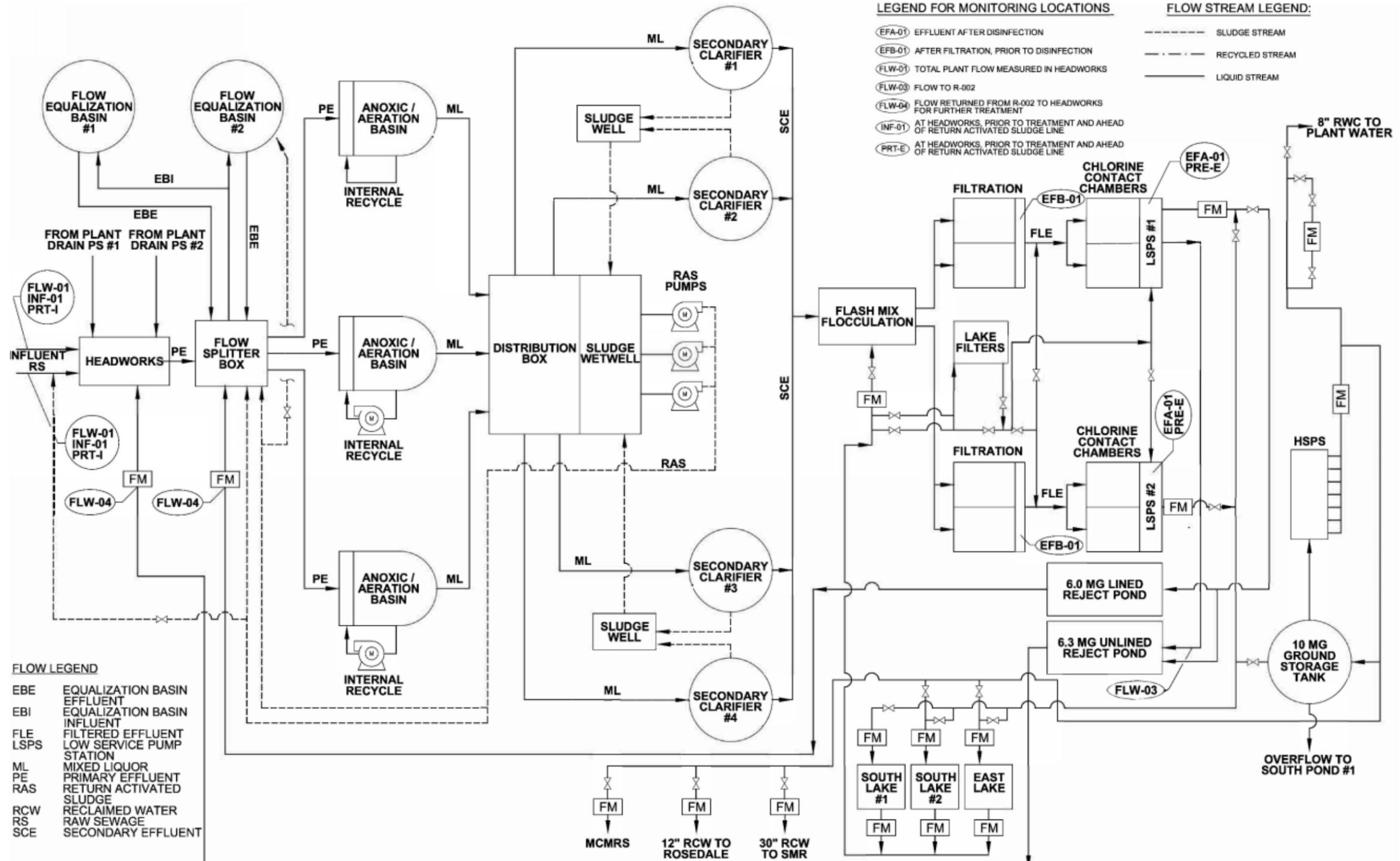


Figure 1-2 Manatee County SERWRF – Liquid Process Flow Diagram

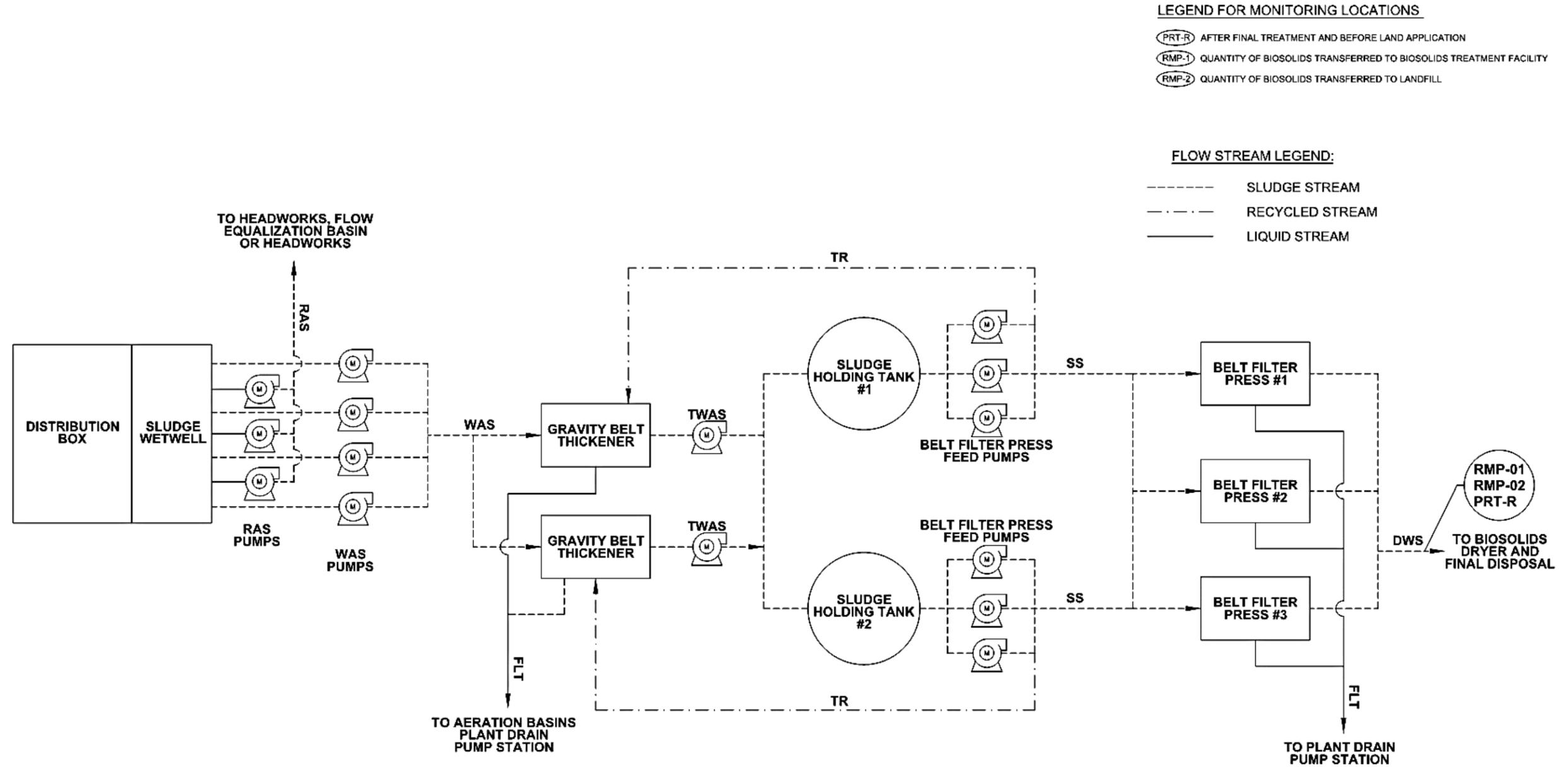


Figure 1-3 Manatee County SERWRF – Solids Handling Process Flow Diagram

Table 1-1 Inventory of the Liquid Treatment Process at the SERWRF

Process	Criteria	Description
Preliminary Treatment		
Headworks Flow Measurement	Number	2
	Type	Magnetic
	Size (Lakewood Ranch)	24 in
	Size (Main Influent)	30 in
	Capacity (Range)	3.6 – 32 mgd
Mechanical Screens	Number	3
	Type	Self Cleaning
	Peak Flow Capacity, each	12.0 mgd
	Screen opening	0.25 in
Grit Removal	Number	2
	Type	Forced Vortex
	Peak Flow Capacity, each	20 mgd
	Diameter	16 ft
Flow Equalization	Number	2
	Type	Offline
	Diameter	150 ft
	Side Water Depth	21.5 ft
	Volume	2.8 MG
	No. of Return Pumps	5
	Type of Return Pumps	Submersible
	Capacity, each	2,000 gpm
	Motor power, each	2 @ 30 hp, 3 @ 15 hp
	Aeration system	Eduction
Secondary Treatment		
Anoxic Basins	Number	3
	Length, each (Nos. 1 & 2)	47 ft
	Width, each (Nos. 1 & 2)	107 ft
	Radius (No. 3)	53.5 ft
	SWD (Nos. 1 & 2)	13.5 ft
	SWD (No. 3)	14 ft
	Volume, each (Nos. 1 & 2)	0.51 MG
	Volume (No. 3)	0.54 MG
	Volume, total	1.56 MG
	Number of mixers, each	2
	Mixer type	Mechanical
	Motor power, each	15 hp

Table 1-1 (Continued) Inventory of the Liquid Treatment Process at the SERWRF

Process	Criteria	Description
Aeration Basins	Number	3
	Length, each (Nos. 1 & 2)	289 ft
	Length (No. 3)	294 ft
	Width, each	107 ft
	SWD, each (Nos. 1 & 2)	13.5 ft
	SWD (No. 3)	14 ft
	Volume, each (Nos. 1 & 2)	2.89 MG
	Volume (No. 3)	3.06 MG
	Volume, total	8.84 MG
Aerators	Number	9 (3 each basin)
	Type	Mechanical surface aerators
	Motor power, each	125 hp
	Unit Aeration Capacity	3.5 lb O ₂ /hr/hp
	Total Oxygen Provided, each basin	1,313 lb/hr
Clarifier Flow Splitter Box	Number of Weirs	4
	Type	Rectangular
	Width, each	7 ft
	Max. Daily Flow (WW + RAS)	6.33 mgd
Secondary Clarifiers	Number	4
	Type	Center feed, peripheral weir
	Sludge withdrawal	Draft tube
	Diameter	110 ft
	SWD	14 ft
	Surface area, each	9,500 ft ²
	Surface area, total	38,010 ft ²
	Scum handling	Full radius scum trough
Flash Mix Basins	Number	2
	Dimensions, each	7 ft x 7 ft x 7.25 ft
	Total Volume	5,315 gal
	Detention Time @ Max. daily flow	36 sec
	Number of Mixers	2
	Motor power, each	10 / 4.4 hp

Table 1-1 (Continued) Inventory of the Liquid Treatment Process at the SERWRF

Process	Criteria	Description
Flocculation Tank	Number	2
	Dimensions	15 ft x 15 ft x 8.09 ft
	Total Volume	27,231 gal
	Detention Time @ Max. daily flow	3.1 min
	Number of Mixers	2
	Motor power, each	1 hp
Automatic Backwash Sand Filter	Number	4
	Type	Traveling Bridge
	Dimensions, each	90 x 16 ft
	Area, each	1,440 ft ²
	Hydraulic Loading at Max. Flow	1.53 gpm/ft ²
	Hydraulic Loading at Peak Flow	3.98 gpm/ft ²
RAS Pumps	Number	3
	Type	Centrifugal
	Type of Drive	Variable Frequency
	Capacity, each	4,400 gpm
	Motor power, each	50 hp
	Total Capacity (3 pumps)	19 mgd
Disinfection		
Chlorine Contact Tanks	Number	4
	Dimensions Existing, each	150 ft x 8 ft x 9 ft SWD
	Dimensions New, each	180 ft x 8 ft x 9 ft SWD
	Volume Existing, each	80,795 gal
	Volume New, each	96,954 gal
	Total Volume	355,500 gal
	Detention Time @ Max. Flow	40.5 min
	Detention Time @ Peak Flow	15.5 min
Hypochlorite System	Number	4
	Capacity	4,000 ppd
	Max. Hypochlorite Application Concentration	10 mg/L
	Max. Hypochlorite Required at 11 mgd	917 ppd
	Max. Hypochlorite Required at 12.65 mgd	1,055 ppd
	Max. Hypochlorite Required at 33 mgd	2,752 ppd

Table 1-2 Inventory of the Solids Treatment Process at the SERWRF

Process	Criteria	Description
Sludge Treatment		
WAS Pumps	Max. Day WAS @ 0.35%	0.66 mgd
	Max. Day WAS @ 0.35%	456 gpm
	Max. Day WAS @ 1%	0.23 mgd
	Max. Day WAS @ 1%	160 gpm
	Number	4
	Type	Centrifugal
	Capacity, each	250 gpm
	Motor power, each	2 hp
	Total Capacity (4 pumps)	1.44 mgd
Sludge Storage Tanks	Number	2
	Diameter, each	94 ft
	Volume, each	1 MG
	Design Max. Day Sludge Production, Dry	19,143 ppd
	Design Max. Day Sludge Volume Loading @ 3%	76,510 gpd
	Detention Time, Both Tanks	26 days
	Max. Unit Aeration Requirement	30 scfm/1,000 ft ³
	Max. Aeration Requirement, Each Tank	4,000 scfm
	Number of Blowers	3
	Capacity, each	4,000 scfm
	Motor power, each	250 hp
	Sludge Thickeners	Number
Type		Gravity Belt
Capacity, each		250 gpm / m
Motor power, each		2 hp
	Chemical Conditioning	Liquid Polymer
Thickened Sludge Pumps	Number	8
	No. of Belt Filter Press Feed Pumps	6
	No. of Sludge Thickener Feed Pumps	2
	Type	Progressive Cavity (8)
	Pump Capacity, each	125 gpm
	Type of Drive	Variable Frequency
	Motor power, each	10 hp

Abbreviations:

ft = feet	mg = milligram
ft ² = square feet	MG = million gallons
ft ³ = cubic feet	mgd = million gallons per day
gal = gallon	Min = minutes
gpm = gallons per minute	MM = max month
hp = horsepower	MD = max day
hr = hour	O ₂ = oxygen
in = inch	ppd = pounds per day
L = liter	scfm = standard cubic feet per minute
lb = pound	sec = second
Max. = maximum	SWD = seasonal water depth

Chapter 2

EXISTING CONDITIONS

The following sections describe the existing permitted capacity, historical flows and loads, and original design criteria for the SERWRF.

2.1 Permitted Capacities

The SERWRF is permitted under FDEP Domestic Wastewater Facility Permit Number FLA012618 to treat 11.0 mgd TMRADF Type I conventional activated sludge (Carrousel). The current FDEP operating permit expires on November 15, 2025, and is included in Appendix A of this report. The SERWRF plant is permitted to send 11.0 mgd AADF of Part III reclaimed water to the Manatee County Master Reuse System (MCMRS) (R-001) via a high service pumping station. The MCMRS is a reclaimed water system that services the entire Manatee County and is operated under a separate permit number FLO474029.

2.2 Facility Capacity Basis

Table 2-1 below lists the facility capacity basis of design for the SERWRF.

Table 2-1 SERWRF Basis of Permitted Capacity

Parameter/Description	Design
Flow, TMRADF	11.0 mgd
Flow, Maximum Day Flow (MDF)	12.65 mgd
Flow, Peak Hourly Flow (PHF)	27.5 mgd
Influent Five-day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	250 mg/L
Influent Total Suspended Solids (TSS)	250 mg/L
Influent CBOD ₅ Loadings at TMRADF	22,940 lb/day
Influent TSS Loadings at TMRADF	22,940 lb/day
<u>CBOD₅ Limits:</u>	
Monthly Average	30 mg/L
Annual Average	20 mg/L
Effluent TSS Limit	5 mg/L
Fecal Coliform, % less than detection (Min.)	75%
Fecal Coliform, Single Sample (Max)	25 #/100mL
Total Residual Chlorine, Single Sample (Min)	1 mg/L
pH	6.0 – 8.5

2.3 Historical Flow Data

In accordance with FDEP’s Guidelines for the Preparation of CARs, the updated CAR must provide data showing the monthly average daily flows (MADF), TMRADF, and AADF for the past 10 years. Daily and monthly operating reports were provided by Manatee County and used for the development of the required data.

The SERWRF measures influent and effluent flow at the facility. All influent flows are monitored and recorded from two 30-inch influent force main with transit time ultrasonic flow meters. The flow meters are prior to side stream flows. The two influent transit time ultrasonic flow meters were last calibrated on March 2, 2020 by Sam Medigovich, TriNova. Appendix B provides a copy of the last influent transit time ultrasonic meter calibration report.

Table 2-2 presents 10 years of historical MADF at the SERWRF from January 2010 to March 2020. In addition, minimum, maximum and annual average flows for each year are illustrated in this table. The data is derived from the monthly Discharge Monitoring Reports (DMRs) submitted to FDEP. **Table 2-2** shows that the AADF from the SERWRF did not exceed the annual average design flow of 11.0 mgd in the 10-year period between 2010 and 2020.

Figure 2-1 graphically shows the MADFs measured over the recent 10-year period.

Table 2-2 SERWRF Historical MADF and AADF⁽¹⁾

Month/Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	5.21	5.12	6.53	5.75	6.70	6.62	6.18	6.33	6.47	7.31	7.69
February	5.21	5.28	6.52	5.79	7.00	6.84	6.34	6.41	6.42	7.22	7.45
March	5.27	5.35	6.59	5.90	7.30	6.84	6.27	6.46	6.32	7.05	7.43
April	5.12	5.34	6.37	5.69	6.95	6.47	6.35	6.22	6.22	6.83	
May	4.72	5.38	6.09	6.01	6.72	5.81	6.49	5.92	6.30	6.55	
June	4.53	5.55	6.42	6.40	6.60	5.53	6.35	6.23	6.32	6.53	
July	4.81	5.92	5.46	6.53	6.41	5.55	6.08	6.34	6.59	7.55	
August	5.05	5.92	5.41	6.43	6.39	5.59	6.65	6.89	6.68	7.24	
September	4.51	6.01	5.25	6.65	6.52	5.81	6.78	6.77	6.97	6.38	
October	4.56	6.05	5.26	6.37	6.48	5.94	6.52	6.36	6.73	6.62	
November	4.87	6.24	5.44	6.42	6.65	5.81	6.14	6.21	6.84	6.54	
December	4.79	6.22	5.54	6.45	6.49	5.94	6.10	6.29	7.11	6.83	
Design Flow	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
Minimum	4.51	5.12	5.25	5.69	6.39	5.53	6.08	5.92	6.22	6.38	7.43
Maximum	5.27	6.24	6.59	6.65	7.30	6.84	6.78	6.89	7.11	7.55	7.69
AADF	4.89	5.70	5.91	6.20	6.68	6.06	6.36	6.37	6.58	6.89	7.52 ⁽²⁾

Notes:

- (1) All units are in mgd.
- (2) AADF for 2020 is the average from January to March.

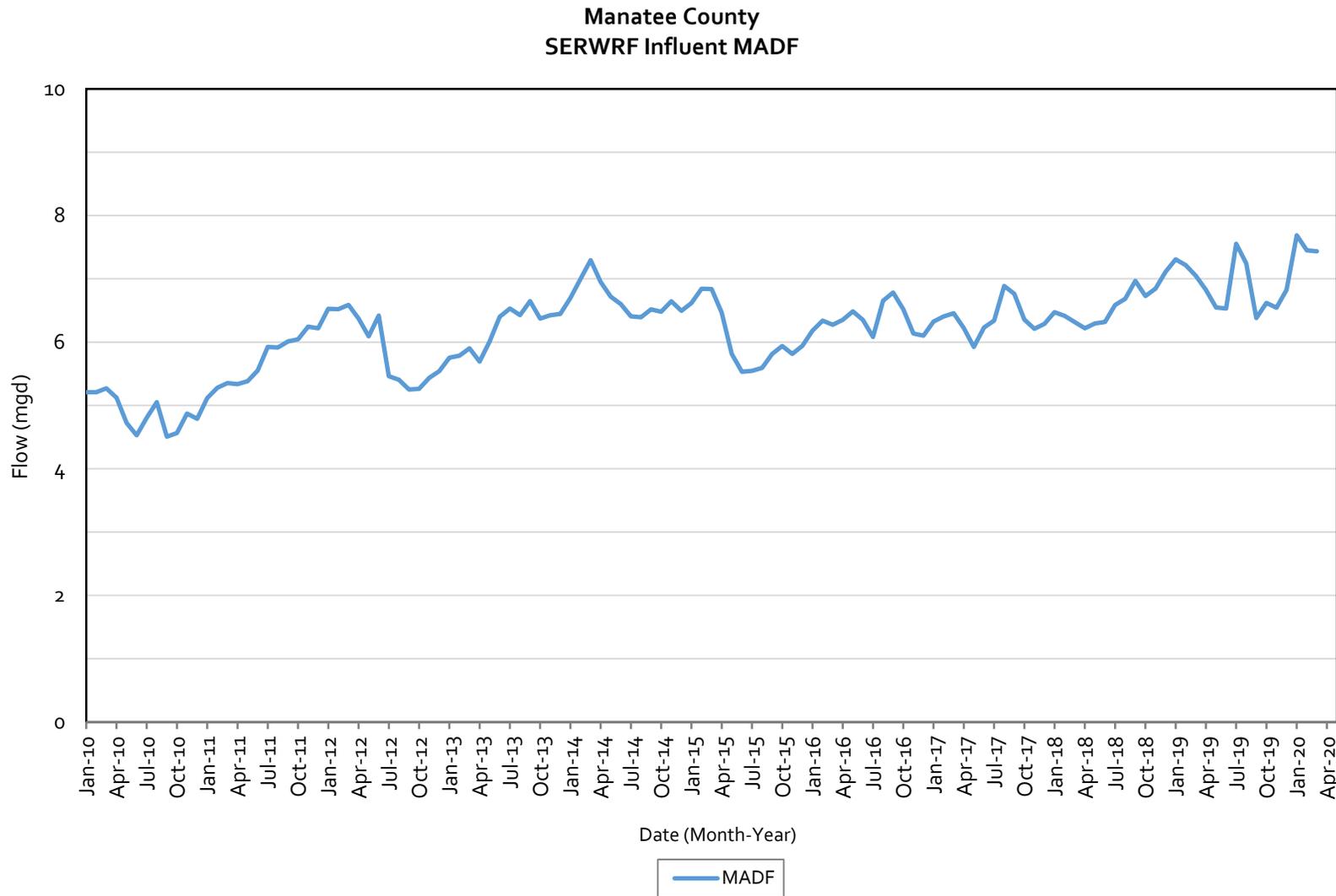


Figure 2-1 Manatee County SERWRF Influent MADF

Table 2-3 presents the TMRADF to the SERWRF from January 2010 to March 2020. **Figure 2-2** illustrates the TMRADF and the design flow at the SERWRF. The TMRADF is calculated by adding the TMRADF observed during the three-month period and then divided by three. The TMRADF is a rolling average for each month of the year, calculated in mgd.

Table 2-3 SERWRF Influent TMRADF⁽¹⁾

Year/Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	5.02	4.93	6.33	5.58	6.52	6.59	5.98	6.19	6.32	7.09	7.02
February	5.14	5.06	6.42	5.69	6.71	6.65	6.15	6.28	6.39	7.21	7.32
March	5.23	5.25	6.55	5.81	7.00	6.77	6.27	6.40	6.40	7.19	7.52
April	5.20	5.32	6.49	5.79	7.08	6.72	6.32	6.36	6.32	7.03	
May	5.04	5.36	6.35	5.87	6.99	6.37	6.37	6.20	6.28	6.81	
June	4.79	5.42	6.29	6.03	6.76	5.94	6.40	6.13	6.28	6.64	
July	4.69	5.62	5.99	6.31	6.58	5.63	6.31	6.16	6.40	6.88	
August	4.79	5.80	5.76	6.45	6.47	5.56	6.36	6.49	6.53	7.11	
September	4.79	5.95	5.37	6.54	6.44	5.65	6.51	6.66	6.75	7.06	
October	4.71	5.99	5.31	6.48	6.46	5.78	6.65	6.67	6.79	6.75	
November	4.65	6.10	5.32	6.48	6.55	5.86	6.48	6.44	6.85	6.51	
December	4.74	6.17	5.41	6.41	6.54	5.90	6.25	6.29	6.89	6.66	

Notes:

(1) All units are in mgd.

Figure 2-2 illustrates the TMRADFs from 2010 to 2020. From 2011 to 2020 the TMRADs were above the 50 percent threshold and, therefore, this updated CAR is provided to meet the Florida Administrative Code requirement.

Table 2-4 shows the AADF from 2010 to 2020. For the past 10 years, the SERWRF has maintained the AADF limit under 11.0 mgd as illustrated in **Figure 2-3**.

Figure 2-4 shows the MADFs, TMRADFs and the AADFs in a single chart from 2010 to 2020 as required by FDEP.

Table 2-4 SERWRF Influent AADF⁽¹⁾

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
AAADF	4.89	5.70	5.91	6.20	6.68	6.06	6.36	6.37	6.58	6.89	7.52

Notes:

(1) All units are in mgd.

(2) The AADF for 2020 is calculated only from January to March.

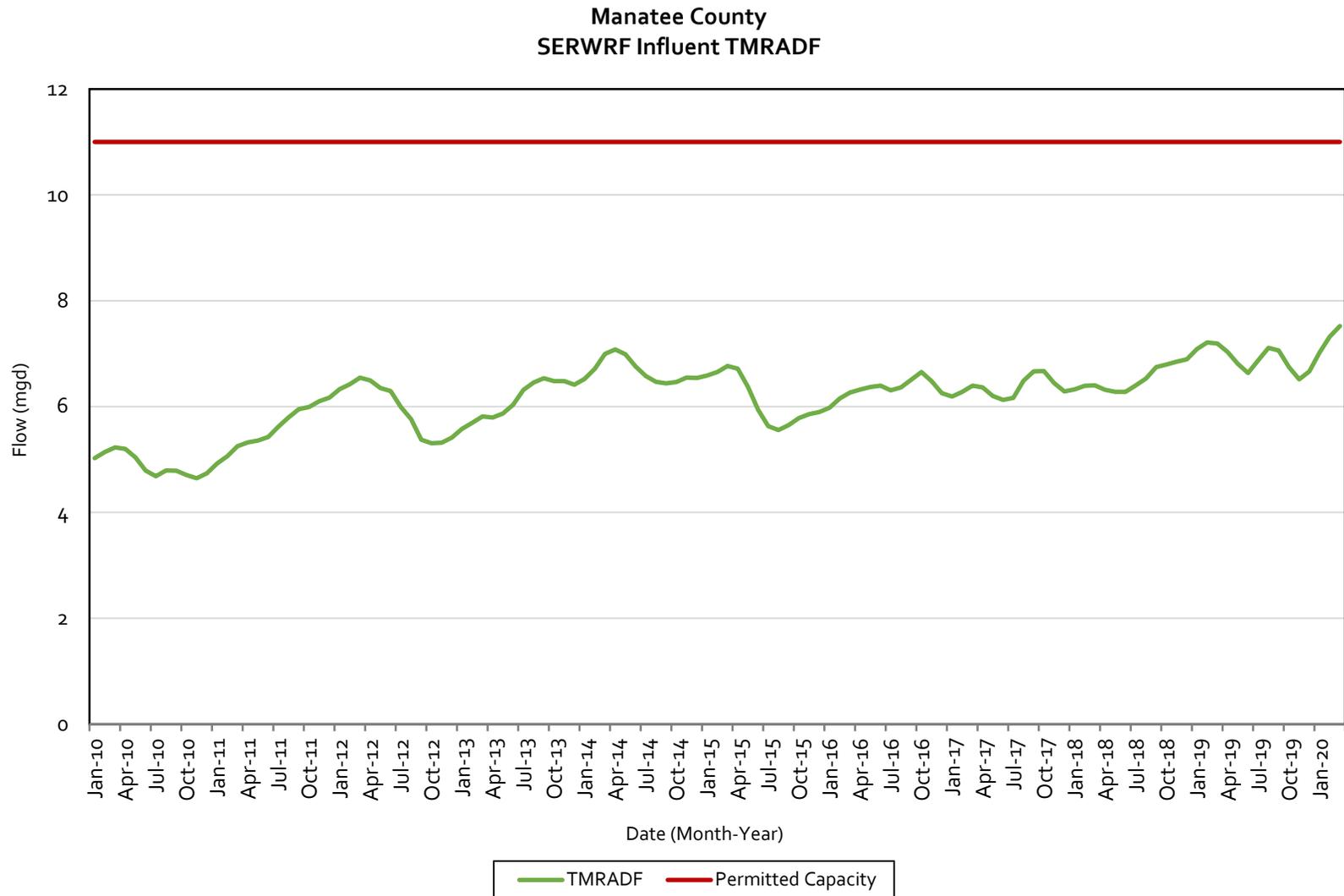


Figure 2-2 Manatee County SERWRF Influent TMRADF

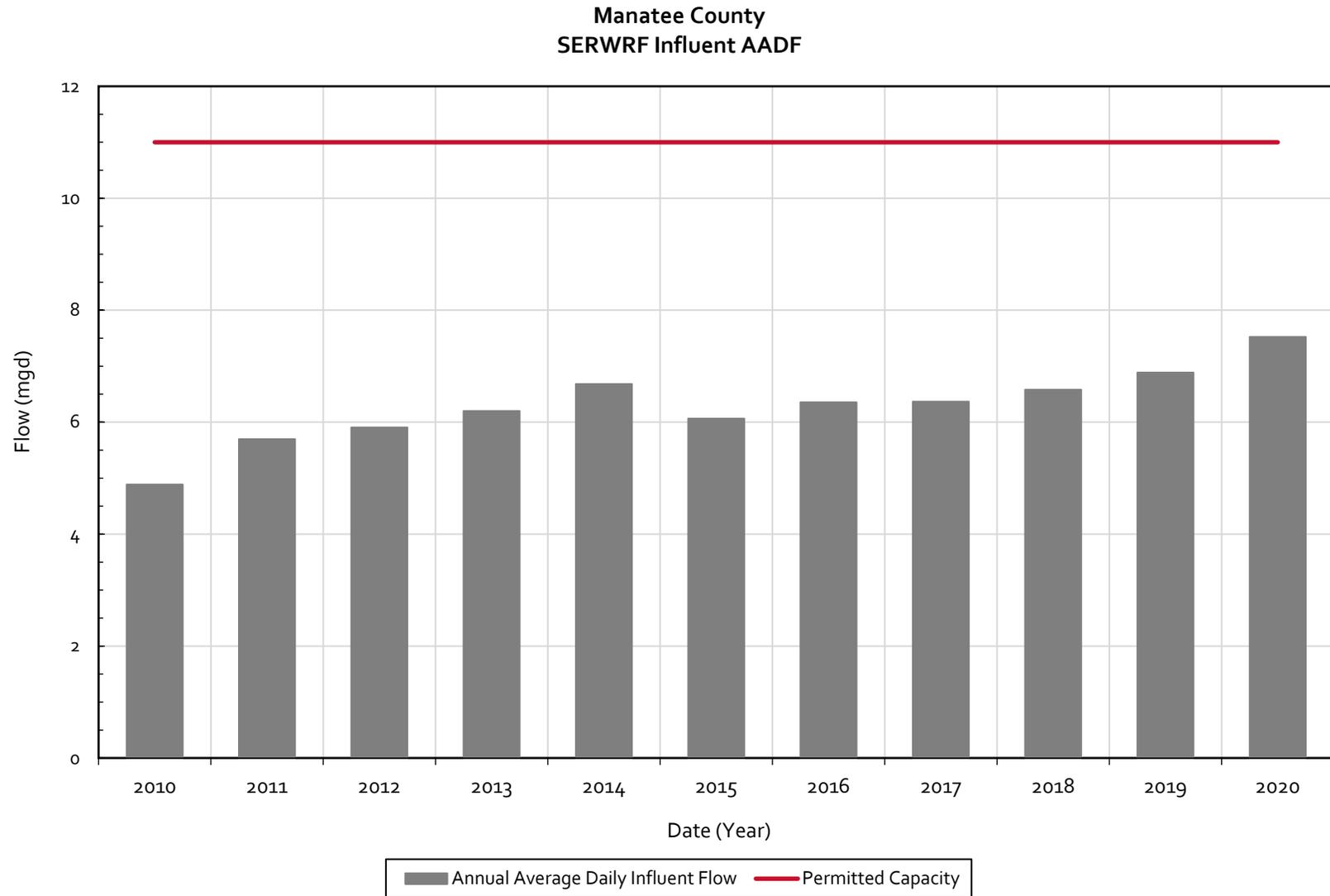


Figure 2-3 Manatee County SERWRF Influent AADF

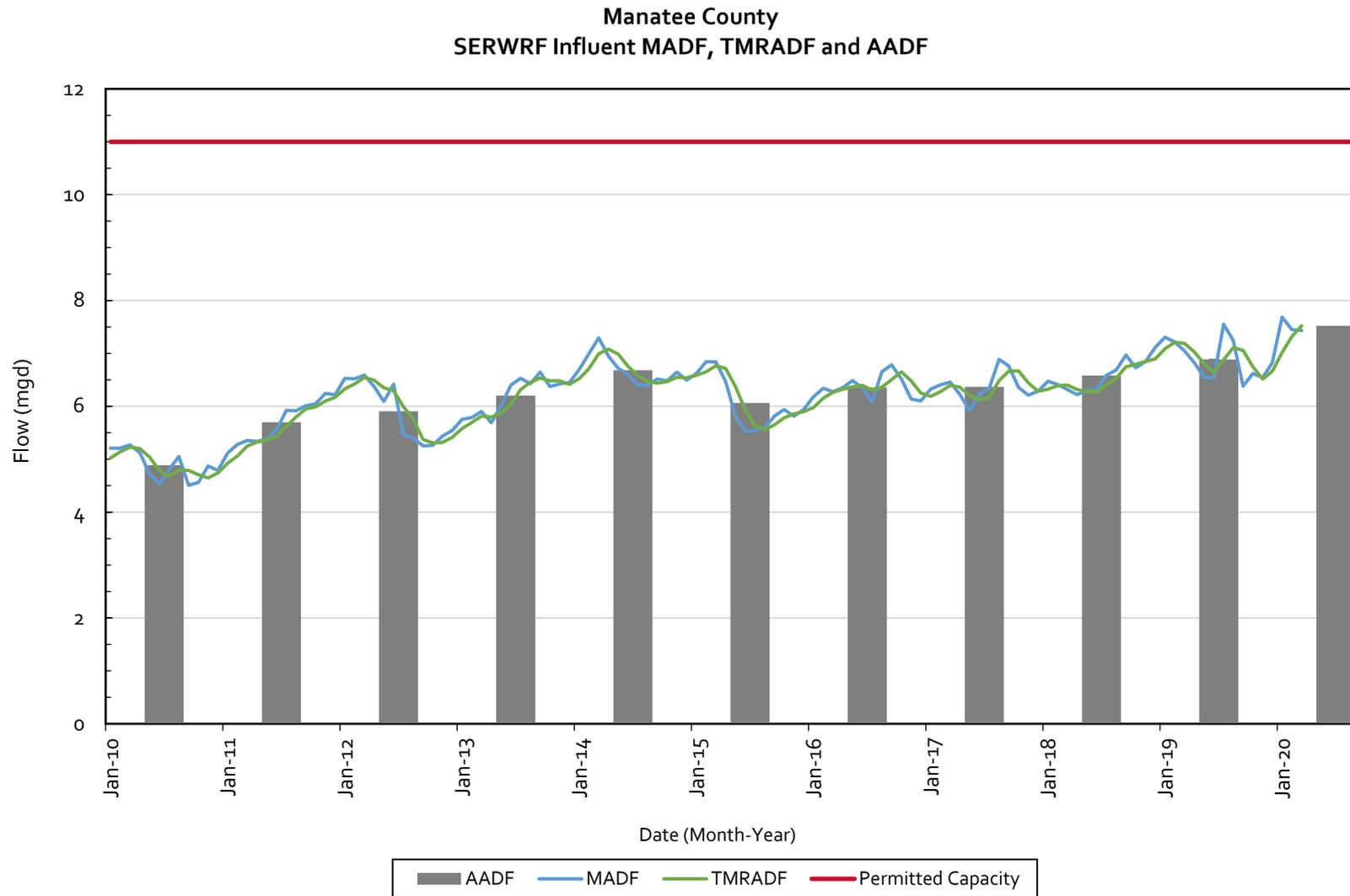


Figure 2-4 Manatee County SERWRF Influent MADF, TMRADF, and AADF

2.4 Seasonal Variations in Flow

Table 2-5 shows the ratio of the maximum TMRADF to the AADF from January 2010 to March 2020, as well as the month in which that maximum TMRADF was observed for each year. The average ratio of the maximum TMRADF to the AADF is 1.06 over the past 10 years. The value of the ratio indicates that there is no significant variation in flow for Manatee County's Southeast Service Area.

Table 2-5 SERWRF Seasonal Flow Variation

Maximum TMRADF			AADF ⁽¹⁾	Maximum TMRADF to AADF Ratio
Year	Month	Flow ⁽¹⁾		
2010	March	5.23	4.89	1.07
2011	December	6.17	5.70	1.08
2012	March	6.55	5.91	1.11
2013	September	6.54	6.20	1.05
2014	April	7.08	6.68	1.06
2015	March	6.77	6.06	1.12
2016	October	6.65	6.36	1.05
2017	October	6.67	6.37	1.05
2018	December	6.89	6.58	1.05
2019	February	7.21	6.89	1.05
2020	March	7.52	7.52	1.00
Average of 10 Years Maximum TMRADF to AADF Ratio				1.06

Notes:

(1) All units are in mgd.

2.5 Updated Flow and Loading Information

The FDEP's Guidelines for Preparation of Capacity Analysis Reports requires that the loadings to the facility be tabulated for the past year based on the influent monitoring data. In accordance with the SERWRF's operating permit, influent CBOD₅ and TSS are monitored on a weekly basis. Influent data collection/limitations for Total Kjeldahl Nitrogen (TKN), Total Phosphorus (TP) and Nitrogen (as N) are not required for this facility. **Table 2-6** and **Table 2-7** present the AADF and influent CBOD₅ and TSS loadings for the past year (April 2019 to March 2020) respectively, while **Figure 2-5** and **Figure 2-6** graphically illustrate the CBOD₅ and TSS influent loadings.

Recorded values of CBOD₅ and TSS loadings during the past year are lower than the design influent loadings.

In addition, the SERWRF effluent parameters are also monitored. **Table 2-8, Table 2-9, Table 2-10, Table 2-11, and Table 2-12** present historical monthly average daily effluent CBOD₅ concentrations, TSS concentrations, maximum daily fecal coliform as #/100 mL reported for each month, fecal coliform as percent less than detection, and daily minimum chlorine residual concentrations reported for each month, respectively, from April 2019 to March 2020. **Figure 2-7, Figure 2-8, Figure 2-9, Figure 2-10, and Figure 2-11** graphically illustrate the effluent CBOD₅, TSS, fecal coliform, and chlorine residual concentrations. Effluent CBOD₅ and TSS concentrations are consistently well below the permitted limits of 30 mg/L and 5 mg/L respectively. Effluent Fecal Coliform and Total Residual Chlorine values also fall within the permitted limits. For Effluent Fecal Coliform (#/100 mL) all values were below the maximum 25 (#/ mL) limit. In fact, most values were below detection limits of 1 (#/100 mL); therefore, when calculated as percent less than detection, all the values for the last year were above the minimum of 75 percent. The daily minimum chlorine residuals for each month have been reported at the minimum allowed limit of 1 mg/L or above.

Table 2-6 SERWRF Current Influent CBOD₅ Loadings and Design Criteria Comparison

AADF (mgd) ⁽¹⁾	Influent CBOD ₅ Loading	
	Design Value (ppd)	Current Value (ppd) ⁽¹⁾
6.97	22,935	8,337

Notes:

(1) Average loading over the past year data (April 2019 through March 2020).

Table 2-7 SERWRF Current Influent TSS Loadings and Design Criteria Comparison

AADF (mgd) ⁽¹⁾	Influent TSS Loading	
	Design Value (ppd)	Current Value (ppd) ⁽¹⁾
6.97	22,935	6,724

Notes:

(1) Average loading over the past year data (April 2019 through March 2020).

Manatee County SERWRF Monthly Average Influent CBOD₅

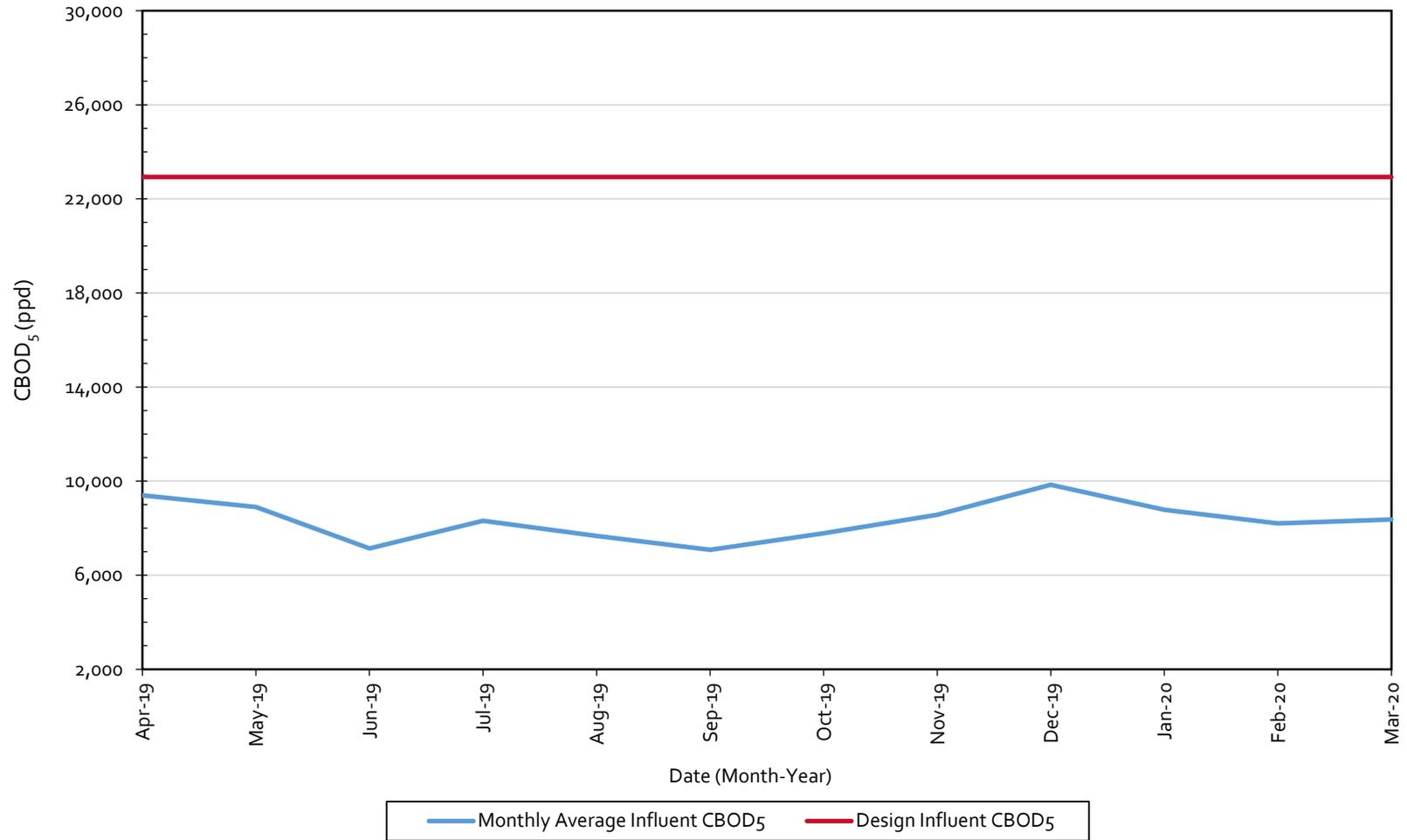


Figure 2-5 Manatee County SERWRF Monthly Average Influent CBOD₅ Loading

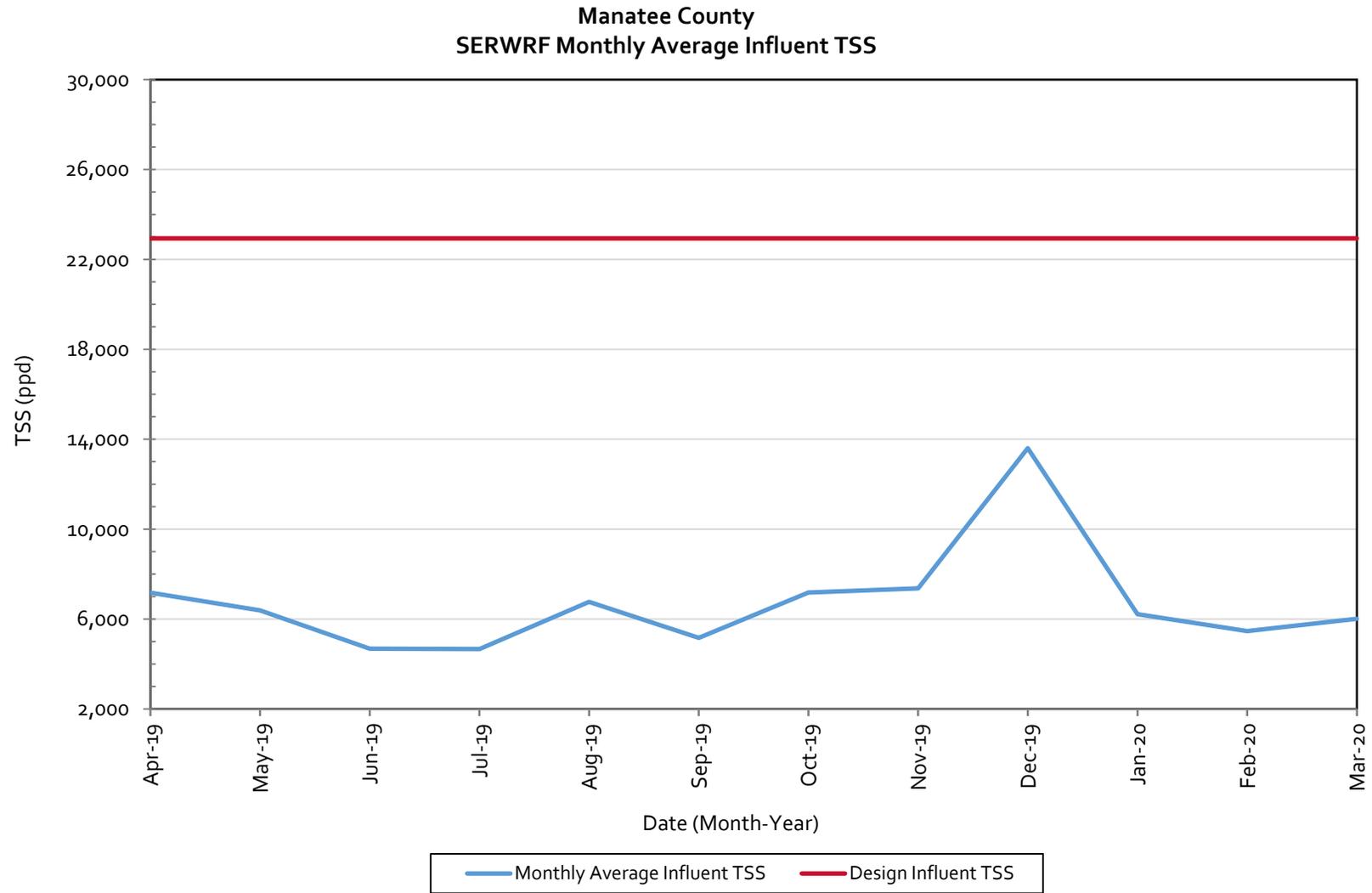


Figure 2-6 Manatee County SERWRF Monthly Average Influent TSS Loadings

Table 2-8 SERWRF Current Effluent CBOD₅ Concentrations and Design Criteria Comparison

Month/Year	Effluent CBOD ₅ Concentrations	
	Permitted Max. Monthly Average Value (mg/L)	Current Value (mg/L)
April 2019	30	0.18
May 2019	30	0.21
June 2019	30	0.32
July 2019	30	0.10
August 2019	30	0.10
September 2019	30	0.10
October 2019	30	0.10
November 2019	30	0.18
December 2019	30	0.10
January 2020	30	0.10
February 2020	30	0.10
March 2020	30	0.10
	Average	0.14
	Maximum	0.32

Table 2-9 SERWRF Current Effluent TSS Concentrations and Design Criteria Comparison

Month/Year	Effluent TSS Concentrations	
	Permitted Max. Single Sample Value (mg/L)	Current Value (mg/L)
April 2019	5	0.50
May 2019	5	0.50
June 2019	5	0.50
July 2019	5	0.50
August 2019	5	0.50
September 2019	5	0.50
October 2019	5	0.50
November 2019	5	0.50
December 2019	5	0.50
January 2020	5	0.50
February 2020	5	0.50
March 2020	5	0.50
	Average	0.50
	Maximum	0.50

Table 2-10 SERWRF Current Effluent Fecal Coliform, #/100 mL and Design Criteria Comparison

Month/Year	Effluent Fecal Coliform	
	Permitted Maximum Single Sample Value #/100 mL	Current Value #/100 mL
April 2019	25	< 1
May 2019	25	< 1
June 2019	25	< 1
July 2019	25	< 1
August 2019	25	5.0
September 2019	25	< 1
October 2019	25	< 1
November 2019	25	< 1
December 2019	25	1.0
January 2020	25	< 1
February 2020	25	1.0
March 2020	25	< 1
	Average⁽¹⁾	2.33
	Maximum	5.0

Notes:

(1) Average assumes values <1 as 1 . For values <1, Fecal Coliform was analyzed but not detected.

Table 2-11 SERWRF Current Effluent Fecal Coliform (percent less than detection) and Design Criteria Comparison

Month/Year	Effluent Fecal Coliform (Percent less than detection)	
	Permitted Min. Single Sample Value (%)	Current Value (%)
April 2019	75	100
May 2019	75	100
June 2019	75	100
July 2019	75	100
August 2019	75	94
September 2019	75	100
October 2019	75	100
November 2019	75	100
December 2019	75	90
January 2020	75	100
February 2020	75	97
March 2020	75	100
	Average	98
	Minimum	90

Table 2-12 SERWRF Current Effluent Total Residual Chlorine Concentrations and Design Criteria Comparison

Month/Year	Effluent Total Residual Chlorine Concentrations	
	Permitted Min. Single Sample Value (mg/L)	Current Value (mg/L)
April 2019	1.0	1.0
May 2019	1.0	1.1
June 2019	1.0	1.3
July 2019	1.0	2.0
August 2019	1.0	1.8
September 2019	1.0	2.0
October 2019	1.0	1.7
November 2019	1.0	1.9
December 2019	1.0	1.1
January 2020	1.0	1.2
February 2020	1.0	1.1
March 2020	1.0	1.2
	Average	1.5
	Minimum	1.0

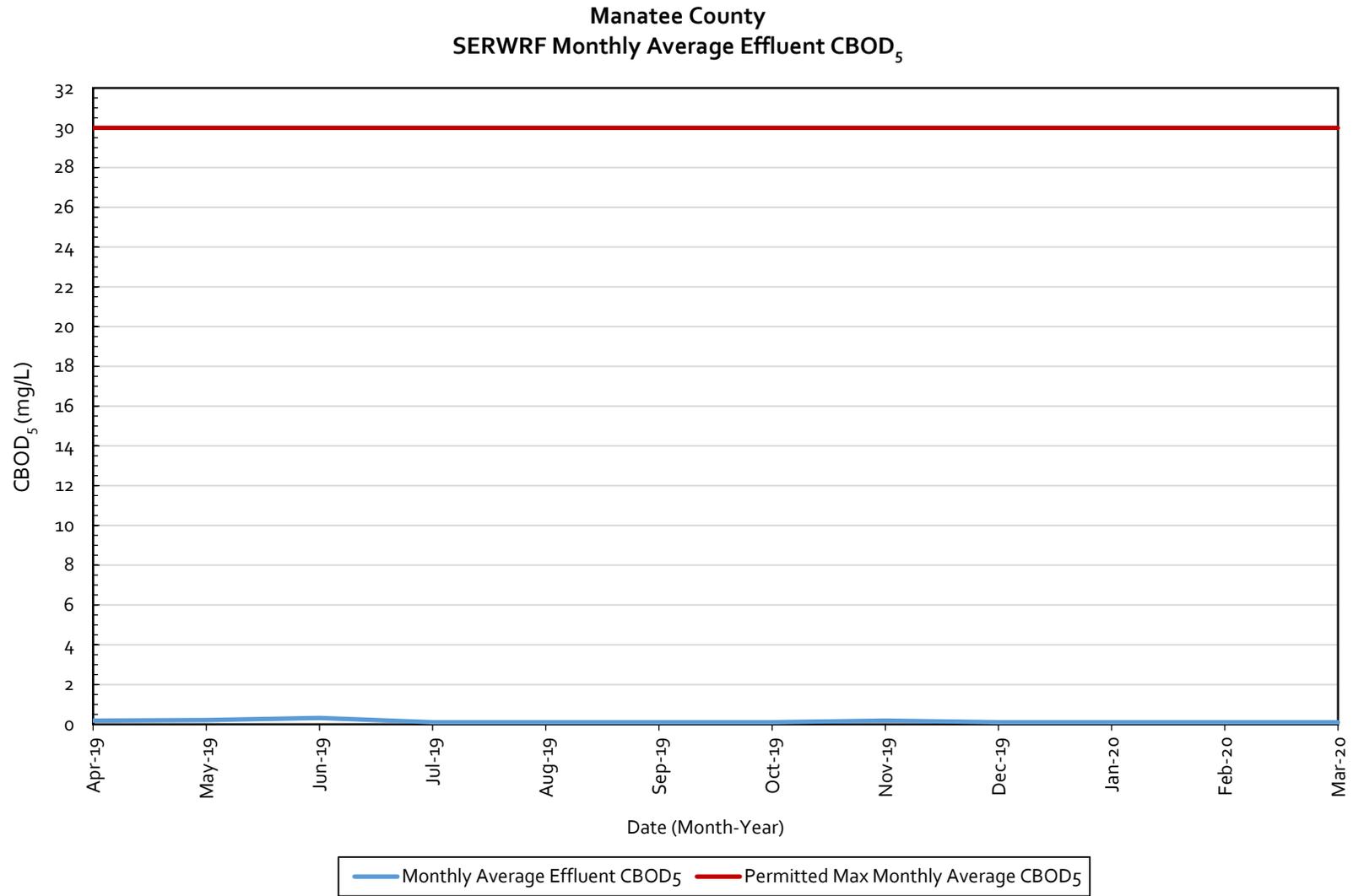


Figure 2-7 Manatee County SERWRF Monthly Average Effluent CBOD₅ Concentrations

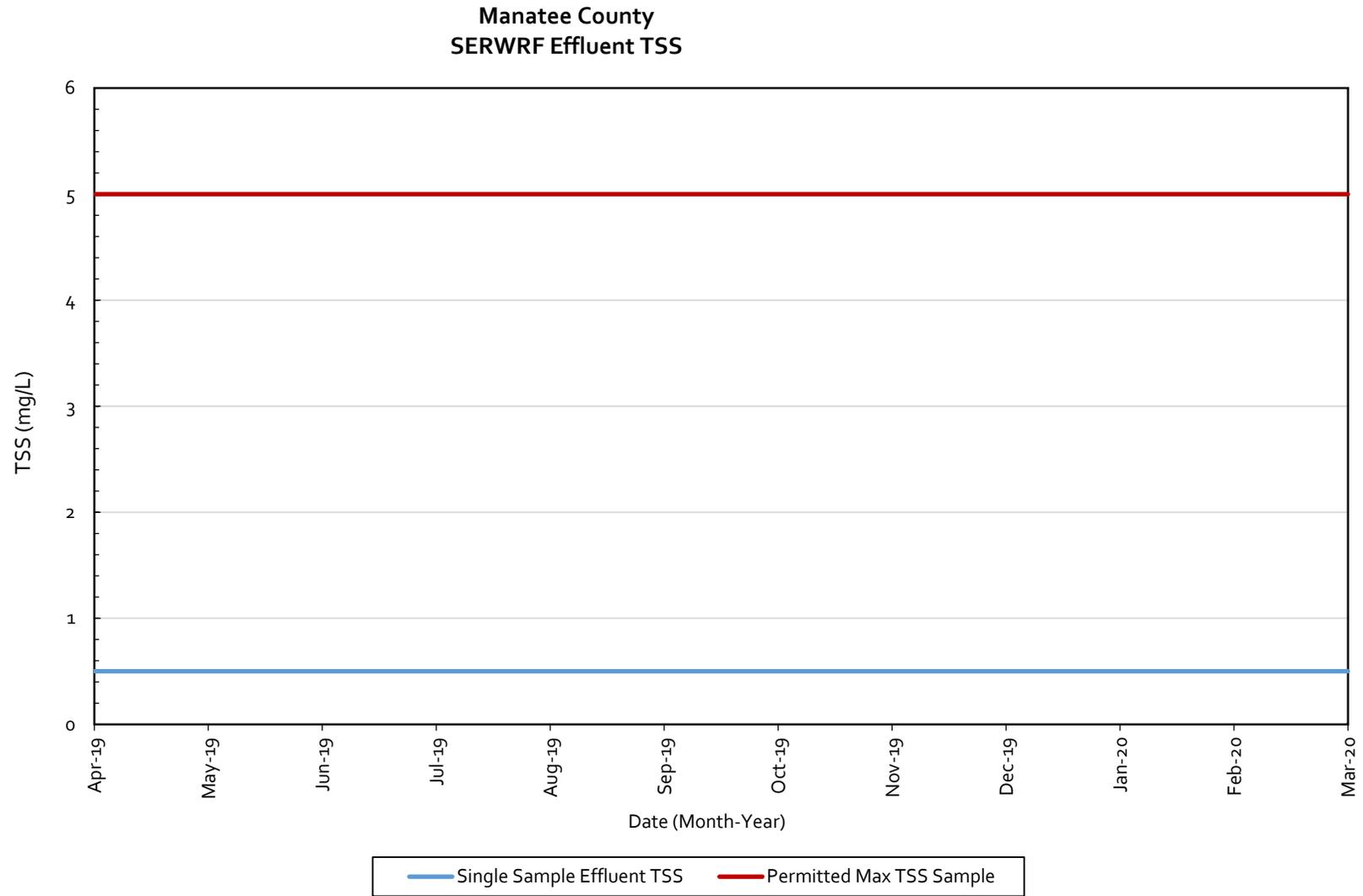


Figure 2-8 SERWRF Monthly Average Effluent TSS Concentrations and Design Criteria Comparison

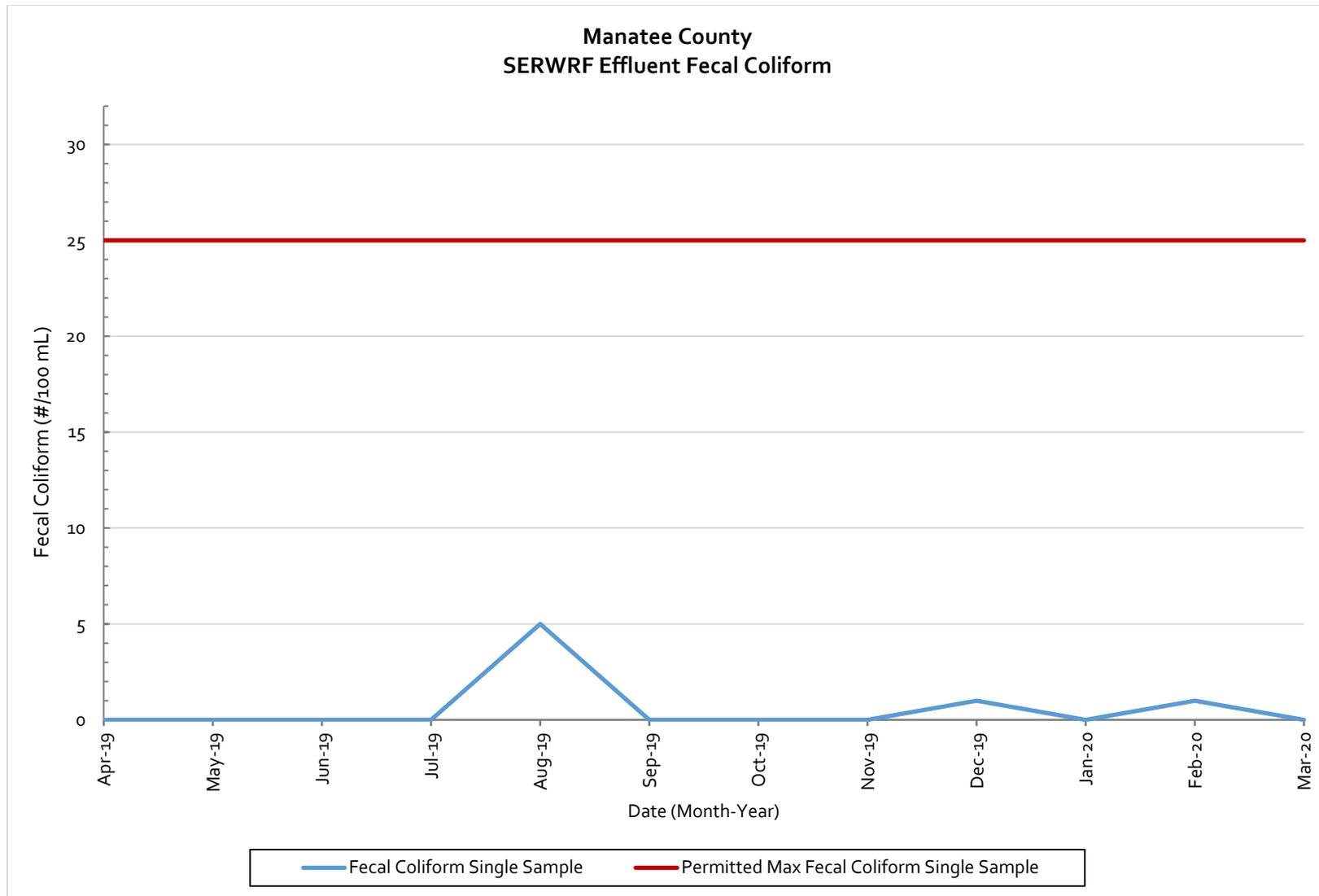


Figure 2-9 SERWRF Maximum Daily Effluent Fecal Coliform (Single Sample)

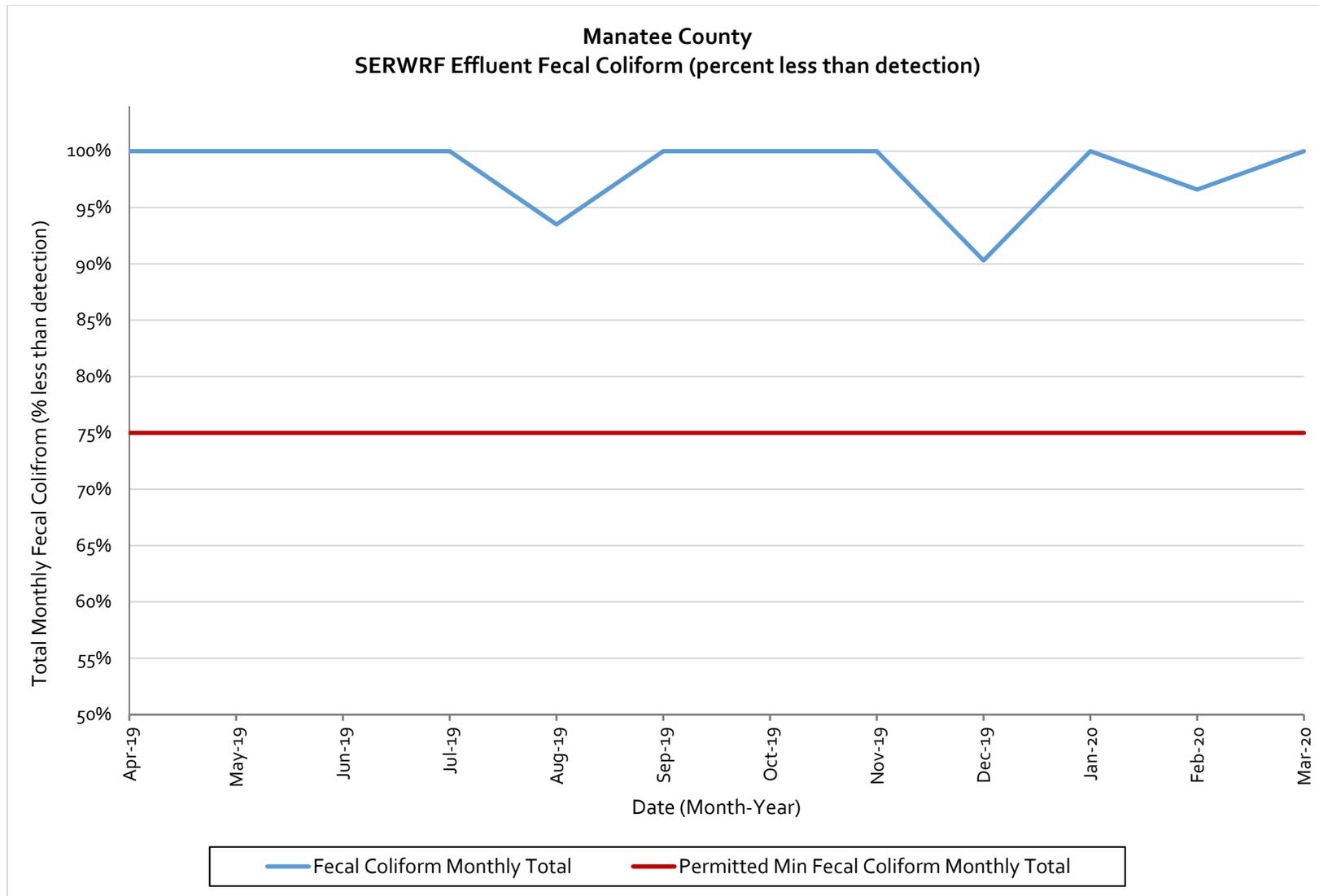


Figure 2-10 SERWRF Effluent Fecal Coliform (percent less than detection)

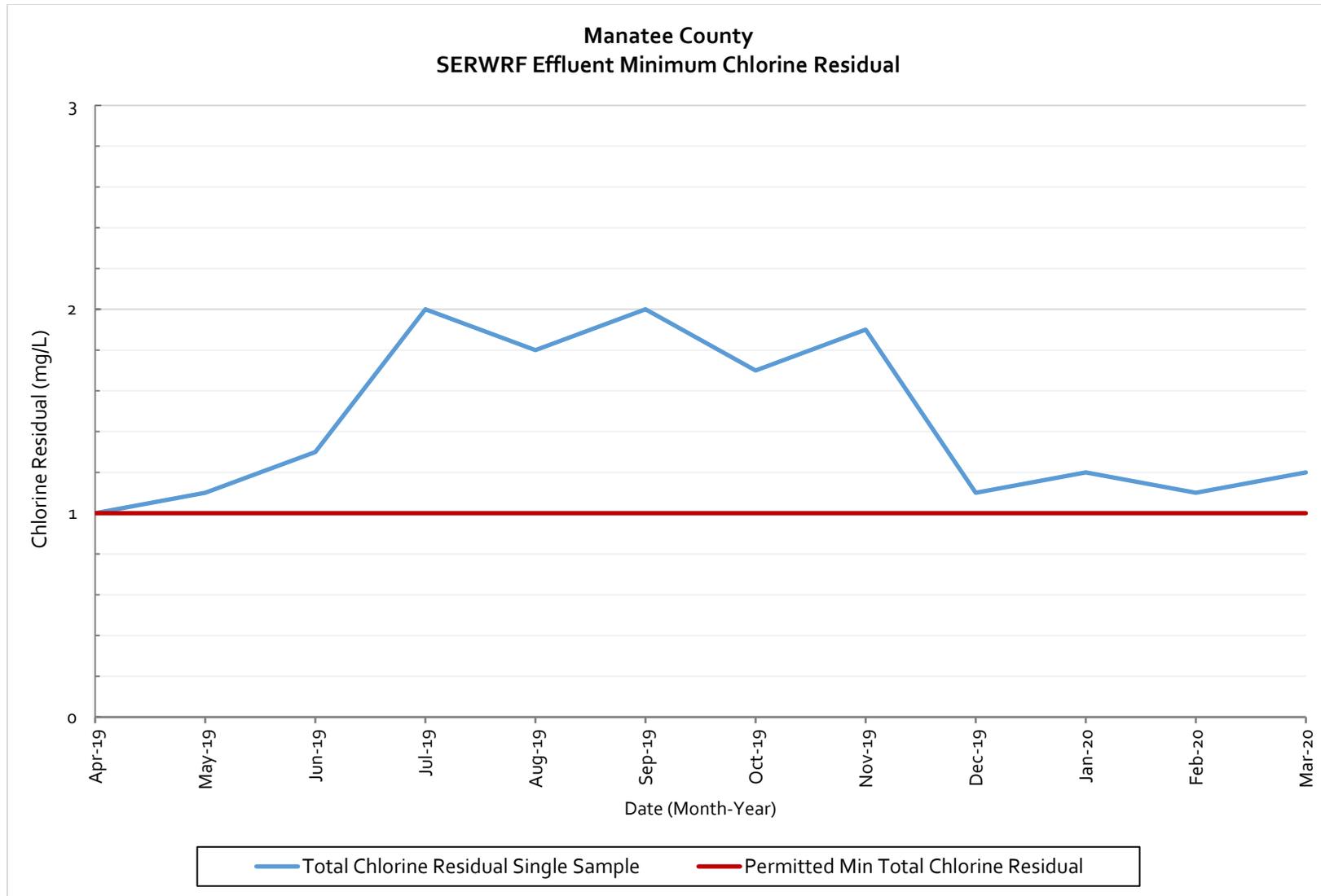


Figure 2-11 SERWRF Effluent Minimum Daily Chlorine Residual

Chapter 3

FUTURE CONDITIONS

The following sections summarize the future population and flow projections through 2035.

3.1 Population Projections

Historical and projected populations were supplied by the Manatee County Planning Department prepared in June 2020. The population projections are based on Manatee County Traffic Analysis Zones. The average historical per capita value was applied to the populations to project the annual average and three-month average daily flows.

Table 3-1 shows the population projections within the Southeast Service Area for the next twenty five years. Manatee County's service area boundaries, existing land use, and future land use are shown in **Figure 3-1**, **Figure 3-2**, and **Figure 3-3** respectively.

Table 3-1 SERWRF Service Area Population Projections

Year	Southeast Service Area Population Total
2019	117,597
2020	119,502
2021	121,407
2022	123,312
2023	125,217
2024	127,122
2025	129,027
2026	130,931
2027	132,836
2028	134,741
2029	136,646
2030	138,551
2031	140,456
2032	142,361
2033	144,266
2034	146,171
2035	148,076
2036	149,981
2037	151,886
2038	153,791
2039	155,695
2040	157,600
2041	159,505
2042	161,410
2043	163,315
2044	165,220
2045	167,125

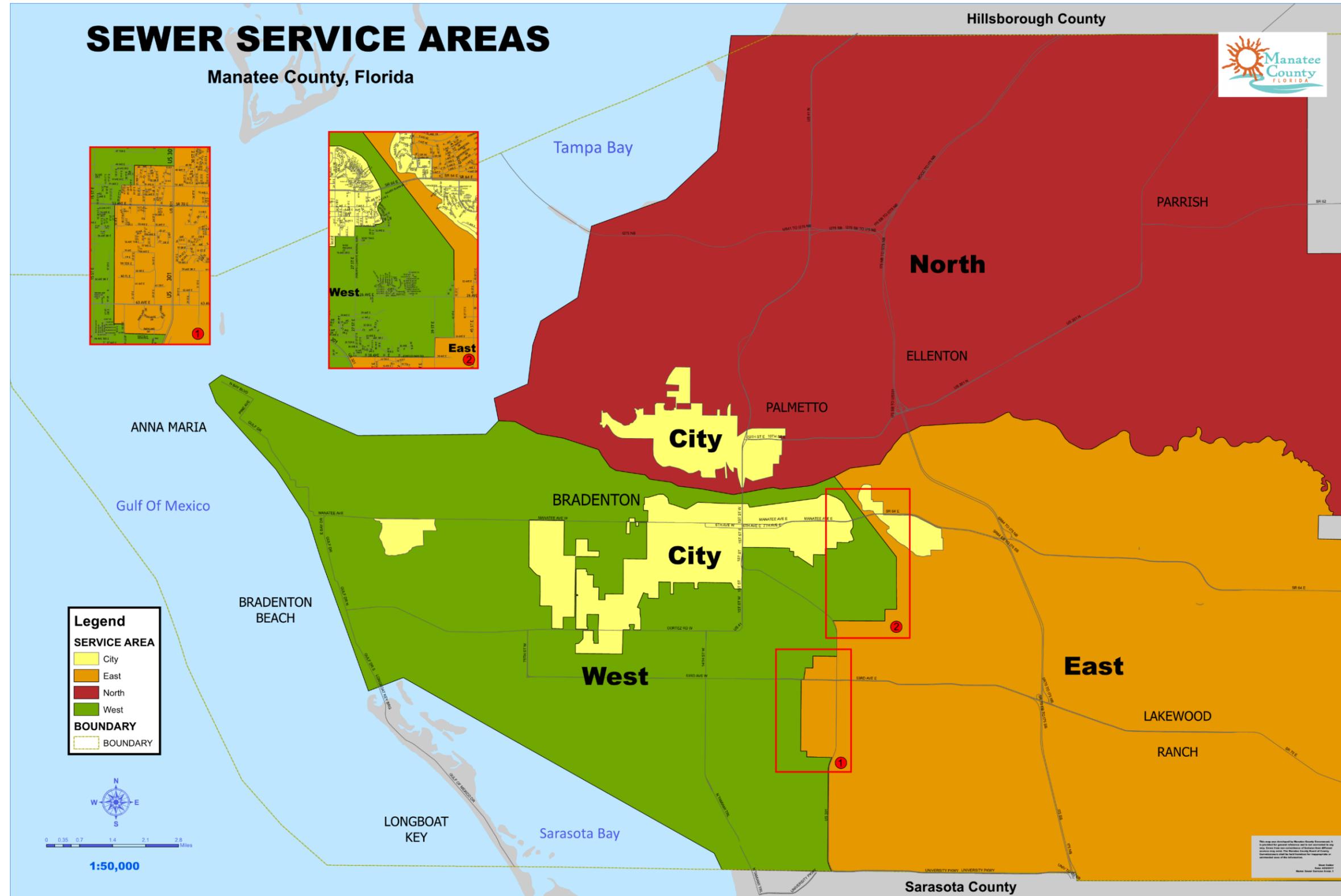


Figure 3-1 Manatee County Existing Service Area Boundaries

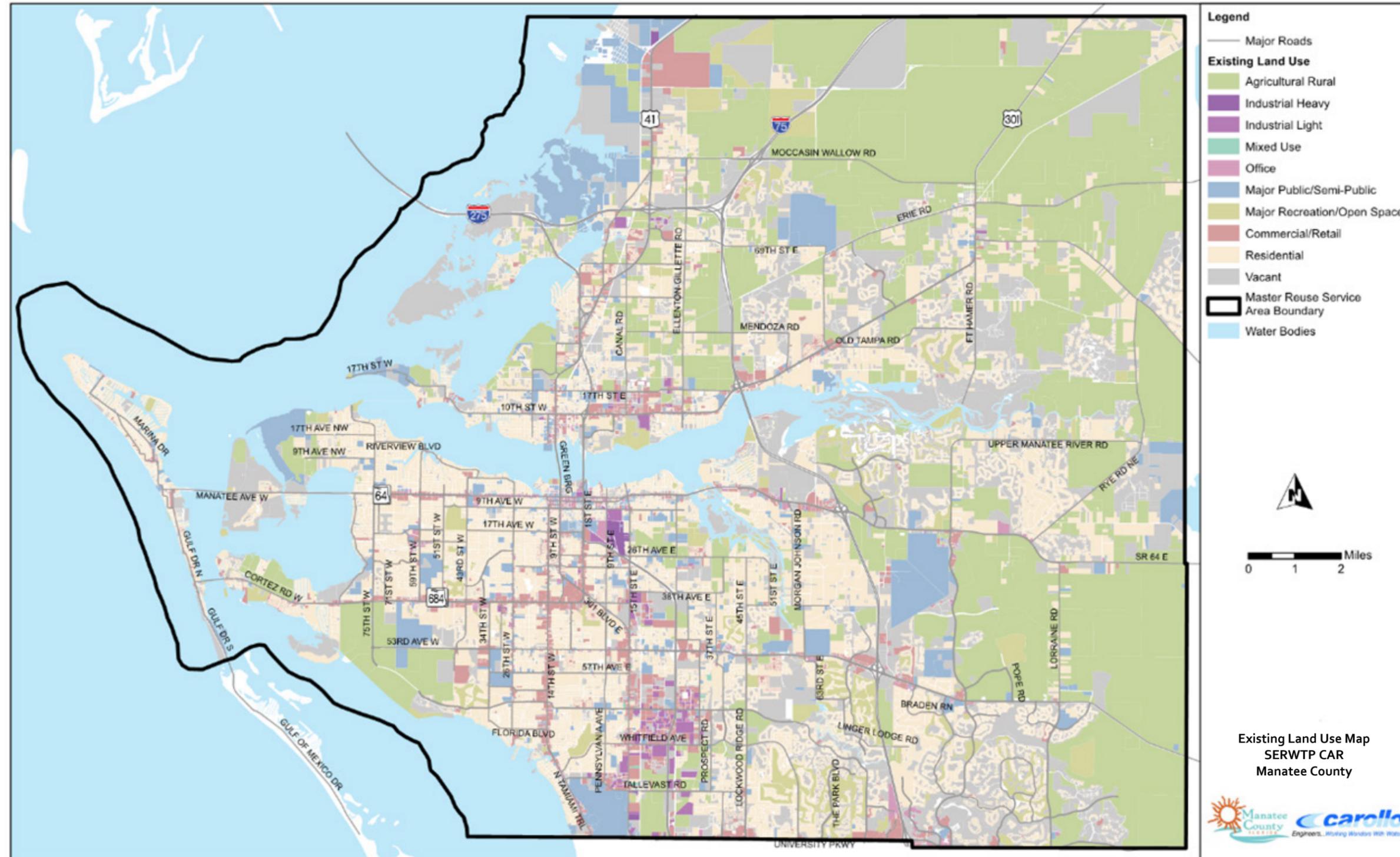


Figure 3-2 Manatee County Existing Land Use

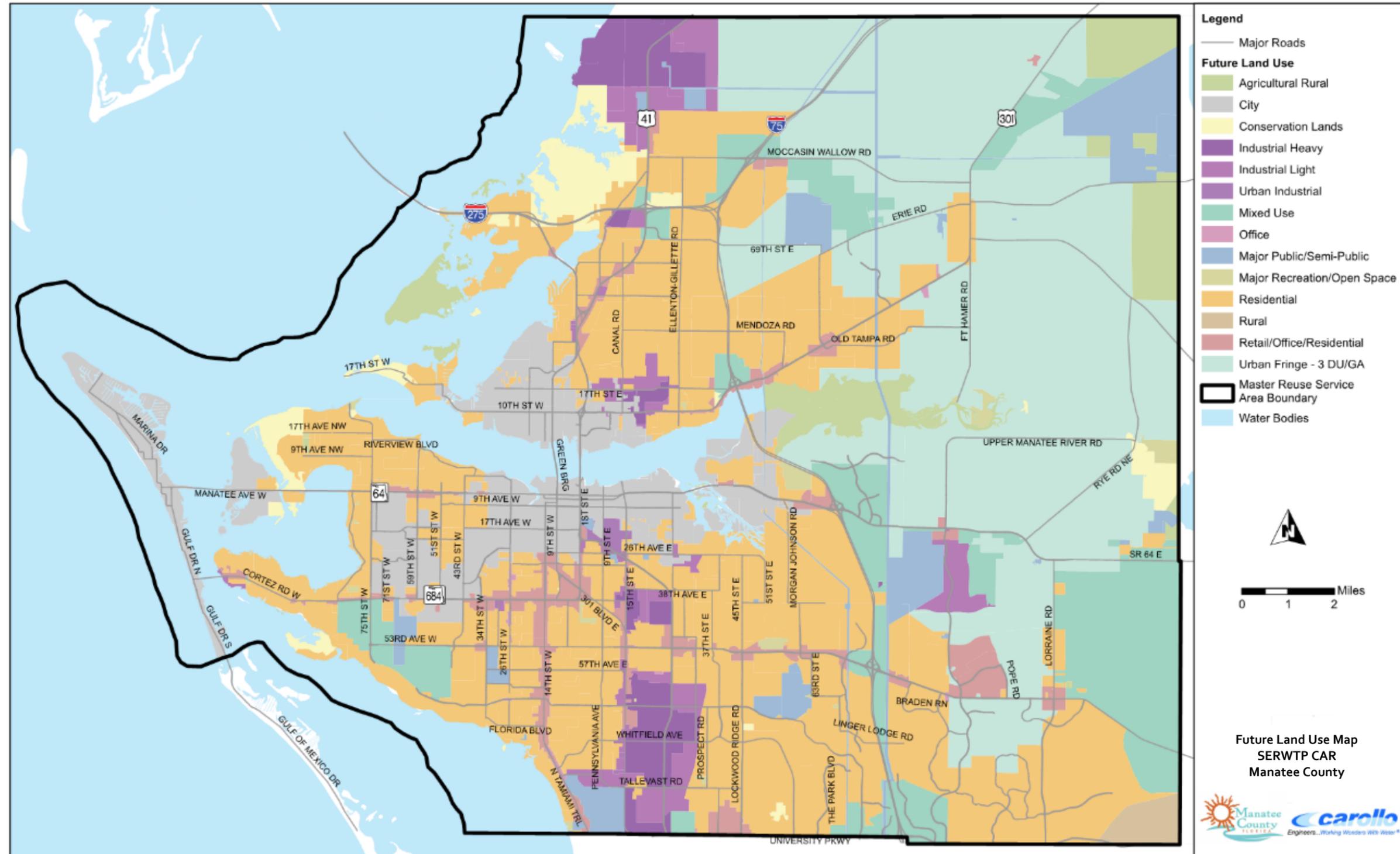


Figure 3-3 Manatee County Future Land Use

3.2 Flow Projections

The AADF, yearly maximum TMRADF and population for the SERWRF were projected beyond the next ten years as indicated in the FDEP's guidelines for preparation of a CAR and are presented in **Table 3-3** and illustrated in **Figure 3-4**. The per capita flow rate of 63.1 gallons per capita per day (gpcd) was calculated by dividing the SERWRF AADF by Southeast Service Area Populations per respective year and averaging from 2010 to 2019. **Table 3-2** illustrates the calculated per capita flow rates.

Table 3-2 Per Capita Flow Rates from 2010 to 2019

Year	AADF	Population	AADF Per Capita Flow (gpcd)
2010	4.89	83,760	58.35
2011	5.70	84,938	67.09
2012	5.91	86,941	67.94
2013	6.20	89,889	68.97
2014	6.68	93,846	71.21
2015	6.06	97,629	62.11
2016	6.36	104,455	60.84
2017	6.37	109,523	58.14
2018	6.58	114,017	57.71
2019	6.89	117,597	58.56

AADF projections were calculated by multiplying the projected populations for each year by the per capita flow rate. The maximum TMRADF values were calculated by multiplying the AADFs by the 1.06 ratio (the average ratio of the maximum TMRADF to the AADF over the past 10 years). Calculated maximum TMRADF projections indicate that the SERWRF will reach its permitted capacity in 2043; therefore, no planning for expansion is anticipated.

Table 3-3 SERWRF Annual Sewered Population Projections

Year	Service Area Population Projections	Projected AADF ⁽¹⁾ (mgd)	Projected Maximum TMRADF ⁽²⁾ (mgd)
2019	117,597	7.42	7.88
2020	119,502	7.54	8.01
2021	121,407	7.66	8.13
2022	123,312	7.78	8.26
2023	125,217	7.90	8.39
2024	127,122	8.02	8.52
2025	129,027	8.14	8.64
2026	130,931	8.26	8.77
2027	132,836	8.38	8.90
2028	134,741	8.50	9.03
2029	136,646	8.62	9.15
2030	138,551	8.74	9.28
2031	140,456	8.86	9.41
2032	142,361	8.98	9.54
2033	144,266	9.10	9.66
2034	146,171	9.22	9.79
2035	148,076	9.34	9.92
2036	149,981	9.46	10.05
2037	151,886	9.58	10.17
2038	153,791	9.70	10.30
2039	155,695	9.82	10.43
2040	157,600	9.94	10.56
2041	159,505	10.06	10.69
2042	161,410	10.18	10.81
2043	163,315	10.30	10.94
2044	165,220	10.42	11.07
2045	167,125	10.54	11.20

Notes:

- (1) AADF calculated using projected populations and calculated 63.1 gpcd from the past 10 years.
(2) Maximum TMRADF calculated by multiplying the AADF by 1.06 (TMRADF to AADF ratio).

Manatee County SERWRF AADF, Maximum TMRADF and Population Projections

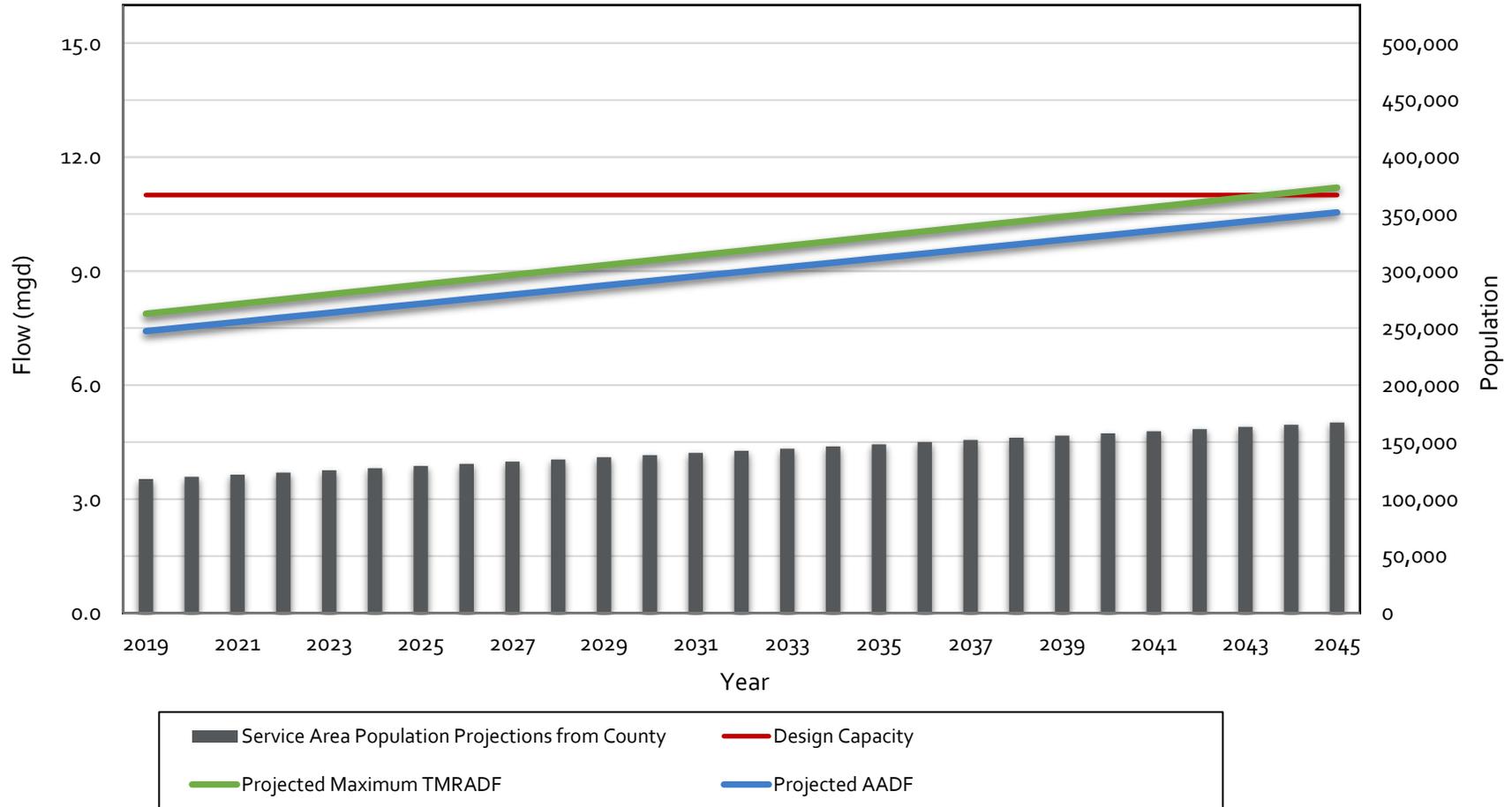


Figure 3-4 SERWRF Flow Projections

Chapter 4

SUMMARY AND CONCLUSIONS

4.1 Time to Reach Permitted Capacity

As shown in **Figure 3-4**, the maximum TMRADF is expected to reach the permitted capacity in 2043.

4.2 Recommendations for Expansion

It is anticipated that the yearly maximum TMRADF will not be equal or exceed the permitted capacity for the SERWRF, reuse, or disposal systems within the next five years; therefore, recommendations for expansion are not included in this updated CAR.

4.3 Expansion Schedules

The yearly maximum TMRADF will not be equal or exceed the permitted capacity for the SERWRF, reuse, or disposal systems within the next five years; therefore, expansion schedules are not included in this updated CAR.

Appendix A

SERWRF DOMESTIC WASTEWATER FACILITY
PERMIT FLA012618



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

September 2, 2015

Mike Gore, Utilities Department Director
Manatee County Utilities
4410 66th Street West
Bradenton, FL 34210
Mike.Gore@mymanatee.org

Re: Permit Correction
Manatee County Southeast Regional WRF
PA File No. FLA012618-022-DWF/MM
Manatee County

Dear Mr. Gore:

The permit FLA012618 issued on August 10, 2015 contained several permit conditions in the Biosolids Management Requirements Section that were not reflective of the actual biosolids processes at the Manatee County Southeast WRF. Permit conditions II.B.9, II.B.10, II.B.11, II.B.12 have been corrected in the attached document to reflect the actual biosolids processes. The associated biosolids DMR has been revised to reflect changes. Please replace the previously issued permit and DMRs with the attached documents. Note that the original permit issuance and expiration dates still apply.

Should you have any questions, you may contact Ryan Curll by email at Ryan.Curll@dep.state.fl.us or by telephone at (813) 470-5947.

Sincerely,

A handwritten signature in blue ink that reads "Kelley M. Boatwright".

for Kelley M. Boatwright
Program Administrator
Permitting & Waste Cleanup Program

KMB/rmc

Enclosures

cc: Andre Rachmaninoff, Manatee County, Andre.Rachmaninoff@mymanatee.org
Ramandeep Kaur, PhD, FDEP SWD, Ramandeep.Kaur@dep.state.fl.us
Vicki McGucken, FDEP SWD, Vicki.McGucken@dep.state.fl.us
Elaine Gracik, FDEP SWD, Elaine.Gracik@dep.state.fl.us
Amanda Rotella, FDEP SWD, Amanda.Rotella@dep.state.fl.us



Florida Department of Environmental Protection

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Jonathan P. Steverson
Secretary

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

Manatee County Utilities Department

RESPONSIBLE OFFICIAL:

Mike Gore
Utilities Department Director
4410 66th Street West
Bradenton, Florida 34210
(941) 792-8811
Mike.Gore@mymanatee.org

PERMIT NUMBER: FLA012618
FILE NUMBER: FLA012618-021-DW1P/NRL
EFFECTIVE DATE: November 16, 2015
FILE NUMBER: FLA012618-022-DWF/MM
REVISION DATE: September 2, 2015
EXPIRATION DATE: November 15, 2025

FACILITY:

Manatee County Southeast Regional WRF
3331 Lena Rd
Bradenton, FL 34211-9458
Manatee County
Latitude: 27°28' 03" N Longitude: 82°26' 59" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.). This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

WASTEWATER TREATMENT:

Operation of an existing 11.0 Million Gallons per Day (MGD) Three Month Rolling Average Daily Flow (TMRADF) Type I conventional activated sludge (Carrousel) domestic wastewater treatment facility. The facility consists of: a headworks with three mechanical bar screens, two forced draft grit removal units, and a wet scrubber for odor control; a flow splitter box; two flow equalization basins with a total volume of 2.6 Million Gallons (MG), which use diffused air to mix and pretreat excess influent flow and leachate from the County landfill; three basins each containing an anoxic section of 0.6 MG (1.8 MG total volume) and an aeration section of 3.1 MG (9.3 MG total volume); four clarifiers with a total volume of 4.0 MG and total surface area of 38,000 Square Feet (SF); a Return Activated Sludge (RAS) pump station; two flash mix basins with a total volume of 5,315 gallons; two flocculation tanks with a total volume of 27,231 gallons; four traveling bridge automatic self-backwashing effluent filters with a total surface area of 5,760 SF; four chlorine contact chambers with a total volume of 355,450 gallons (the chlorination system is comprised of a sodium hypochlorite feed system);

Treated effluent is pumped to storage or to reuse customers. Flow that does not meet reuse standards is pumped to either a 6.3 MG unlined reject pond (R-002) or a 6.0 MG lined reject pond. All reject water from the unlined reject pond is returned to the plant headworks for treatment; all reject water from the lined pond is returned to the splitter box for subsequent treatment.

Biosolids treatment consists of:

A sludge wetwell; two 250 GPM/2.0 meter gravity belt thickeners; two aerated sludge storage tanks with a total volume of 2.0 MG; three belt filter presses; a 32 dry tons per day biosolids dryer system that includes a rotating drum, direct heat drying

PERMITTEE: Manatee County Utilities Department
FACILITY: Manatee County Southeast Regional WRF

PERMIT NUMBER: FLA012618-021-DW1P/NRL

system, and biosolids pelletization process with high rate exhaust gas recirculation; two product storage silos; a regenerative thermal oxidizer; cake pumps; a natural gas transmission line to the biosolids building to provide fuel for the dryer system; a landfill gas line from the existing flare burner to the biosolids dryer system building. The biosolids system will combine trucked dewatered biosolids from the MCNWRF and the MCSWRF with the MCSEWRF biosolids in the receiving/recycle bin for processing.

REUSE OR DISPOSAL:

Land Application R-001: An existing 11.0 MGD Annual Average Daily Flow (AADF) permitted capacity slow-rate public access system. The Manatee County Southeast Regional WRF serves as a source facility for up to 11.0 MGD Annual Average Daily Flow (AADF) of Part III reclaimed water which is transferred to the Manatee County Master Reuse System (R-001). Water from the combined 487.16 MG of reservoir storage ponds may be chlorinated (by chlorine injection) and/or filtered (in designated lake filters) prior to re-entry to the Manatee County Master Reuse distribution system. The Manatee County Master Reuse System consists of a general service area located in Manatee County as defined by the map titled Manatee County Master Reuse and MARS System Service Area, dated February 13, 2006 and under Department permit number FLA474029.

Land Application R-002: An existing 6.3 MGD AADF permitted capacity Rapid Infiltration Basin (RIB) system. An unlined, on-site pond (R-002) is used to store reject Part III water until it is returned to the headworks for further treatment. R-002 is located approximately at latitude 27° 28' 04" N, longitude 82° 26' 51" 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 23 of this permit.

PERMITTEE: Manatee County Utilities Department
 FACILITY: Manatee County Southeast Regional WRF

PERMIT NUMBER: FLA012618-021-DW1P/NRL

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Reuse and Land Application Systems

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to 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.B.8:

Parameter	Units	Max/Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max	11.0	Annual Average	Continuous	Recording Flow Meter with Totalizer	FLW-02	See I.A.3
Flow	MGD	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-02	See I.A.3
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	Monthly	Calculated	EFA-01	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	30.0 45.0 60.0	Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFA-01	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Daily; 24 hours	Grab	EFA-01	
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-01	See I.A.12
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	Monthly	Calculated	EFA-01	See I.A.4
Coliform, Fecal	#/100mL	Max	25	Single Sample	Daily; 24 hours	Grab	EFA-01	See I.A.13
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-01	See I.A.5, I.A.8, I.A.12, and I.A.14
Turbidity	NTU	Max	Report	Single Sample	Continuous	Meter	EFA-01	See I.A.6 and I.A.8
Nitrogen, Total (as N)	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFA-01	
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFA-01	
Giardia	cysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Filtered	EFA-01	See I.A.9 and I.B.5
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Filtered	EFA-01	See I.A.9 and I.B.5

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-02	Flow to R-001.
EFA-01	Effluent after disinfection.
EFB-01	After filtration, prior to disinfection.

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. 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)]*
5. 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. *[62-600.440(5)(b); 62-610.460(2); and 62-610.463(2)]*
6. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. *[62-610.463(2)]*
7. The treatment facilities shall be operated in accordance with all approved operating protocols. Only reclaimed water that meets the criteria established in the approved operating protocol(s) may be released to system storage or to the reuse system. Reclaimed water that fails to meet the criteria in the approved operating protocol(s) shall be directed to reject storage for subsequent additional treatment or disinfection. *[62-610.320(6) and 62-610.463(2)]*
8. Instruments for continuous on-line monitoring of total residual chlorine and turbidity shall be equipped with an automated data logging or recording device. *[62-610.463(2)]*
9. Intervals between sampling for Giardia and Cryptosporidium shall not exceed two years. *[62-610.463(4)]*

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10. During the period beginning on the effective 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.B.8:

Parameter	Units	Reclaimed Water Limitations			Monitoring Requirements			Notes
		Max/Min	Limit	Statistical Basis	Frequency of Monitoring	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-05	See I.A.3
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	5 Days/Week	24-hr FPC	EFA-01	
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-01	
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-01	See I.A.12
Coliform, Fecal	#/100mL	Max Max Max	200 200 800	Annual Average Monthly Geometric Mean Single Sample	5 Days/Week	Grab	EFA-01	See I.A.13
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Continuous	Meter	EFA-01	See I.A.8, I.A.12 and I.A.14
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	5 Days/Week	24-hr FPC	EFA-01	

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11. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.A.100. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-03	Flow to R-002.
FLW-04	Flow returned from R-002 to headworks for further treatment
FLW-05	Total Flow to R-002 (FLW-05 = FLW-03 – FLW-04)
EFA-01	Effluent after disinfection.
EFB-01	After filtration, prior to disinfection.

12. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [Chapter 62-601, Figure 2]
13. The effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report to be used to calculate the annual average. [62-600.440(4)(c)]
14. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-610.510, 62-600.440(4)(b) and (5)(b)]

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B. Other Limitations and Monitoring and Reporting Requirements

1. During the period beginning on the effective 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.8:

Parameter	Units	Max/Min	Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max	11.0	3-Month Rolling Average	Monthly	Recording Flow Meter with Totalizer	FLW-01	See I.B.4
Flow	MGD	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-01	See I.B.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Total	Monthly	Calculated	FLW-01	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	INF-01	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	INF-01	See I.B.3

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
FLW-01	Total plant flow measured at the headworks.
INF-01	At headworks prior to treatment and ahead of return activated sludge line.

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. Sampling results for Giardia and Cryptosporidium shall be reported on DEP Form 62-610.300(4)(a)4, Pathogen Monitoring, which is attached to this permit. This form shall be submitted to the Department's Southwest District Office and to DEP's Reuse Coordinator in Tallahassee. *[62-610.300(4)(a)]*
6. 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]*

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 the effective date of the permit. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit,

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the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

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

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 Southwest District Office at the address specified in Permit Condition I.B.13 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)]

9. 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)]*
10. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. *[62-610.870(3)]*
11. Operating protocol(s) shall be reviewed and updated periodically to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department's Southwest District Office for review and approval upon revision of the operating protocol(s) and with each permit application. *[62-610.320(6)][62-610.463(2)]*
12. The permittee shall maintain an inventory of storage systems. The inventory shall be submitted to the Department's Southwest District Office at least 30 days before reclaimed water will be introduced into any new storage system. The inventory of storage systems shall be attached to the annual submittal of the Annual Reuse Report. *[62-610.464(5)]*

13. 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 Southwest District Office at the address specified below:

Florida Department of Environmental Protection
 Southwest District Office
 13051 N Telecom Pkwy
 Temple Terrace, Florida 33637-0926
 Email Address: swd_dw@dep.state.fl.us

Phone Number - (813) 470-5700
 FAX Number - (813) 470-5996

[62-620.305]

14. 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. BIOSOLIDS MANAGEMENT REQUIREMENTS

A. Basic Requirements

1. Biosolids generated by this facility may be transferred to a biosolids treatment facility, distributed and marketed, 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 for Monitoring Group RMP-Q in accordance with Condition I.B.8.

Parameter	Units	Max/Min	Biosolids Limitations		Monitoring Requirements		
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Biosolids Quantity (Received)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-01
Biosolids Quantity (Distributed & Marketed in Florida)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-02
Biosolids Quantity (Distributed & Marketed outside of Florida)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-03
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-04
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-05

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

4. Biosolids quantities shall be calculated as listed in Permit Condition II.A.33 and as described below:

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-01	Quantity of biosolids received.
RMP-02	Quantity of biosolids distributed and marketed in Florida.
RMP-03	Quantity of biosolids distributed and marketed outside of Florida.
RMP-04	Quantity of biosolids transferred to a biosolids treatment facility.
RMP-05	Quantity of biosolids transferred to a landfill.

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)]

B. Treatment and Monitoring Requirements

8. The permittee is authorized to produce Class AA biosolids; biosolids that do not meet Class AA requirements may be disposed of in a Class I landfill.
9. The permittee shall achieve Class A pathogen reduction by meeting the pathogen reduction requirements in section 503.32(a)(7) (Use of PFRP (Processes to Further Reduce Pathogens)-Heat Drying) of Title 40 CFR Part 503. [62-640.600(1)(a)]
10. The permittee shall achieve vector attraction reduction for Class AA biosolids by meeting the vector attraction reduction requirements in section 503.33(b)(8) (Reduce moisture content of biosolids that contain unstabilized solids from primary treatment to at least 90 % solids) of Title 40 CFR Part 503. [62-640.600(2)(a)]
11. Temperature and solids percentage, for class AA biosolids generated through the heat drying operation, 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]
12. Solids percentage, for class AA biosolids generated through the heat drying operation, shall be routinely monitored to demonstrate compliance with vector attraction reduction requirements specified in Rule 62-640.600, F.A.C. [62-640.650(3)(a)2]
13. 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)]
14. 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.8. 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 Weight (as N)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA
Phosphorus, Sludge, Tot, Dry Weight (as P)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA
Potassium, Sludge, Tot, Dry Weight (as K)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA
Arsenic, Sludge, Tot, Dry Weight, (as As)	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 Weight (as Cu)	mg/kg	Max Max	1500.0 4300.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Lead, Sludge, Tot, Dry Weight (as Pb)	mg/kg	Max Max	300.0 840.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Mercury, Sludge, Tot, Dry Weight (as Hg)	mg/kg	Max Max	17.0 57.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Molybdenum, Sludge, Tot, Dry Weight (as Mo)	mg/kg	Max	75.0	Single Sample	Monthly	Composite	RMP-AA
Nickel, Sludge, Tot, Dry Weight (as Ni)	mg/kg	Max Max	420.0 420.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Selenium, Sludge, Tot, Dry Weight (as Se)	mg/kg	Max Max	100.0 100.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Zinc, Sludge, Tot, Dry Weight (as Zn)	mg/kg	Max Max	2800.0 7500.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA
Temperature (C)	Deg C	Min	80	Minimum	Continuous	Meter	RMP-AA
Solids, Total, Sludge, Percent	percent	Min Min	Report 90	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.

[62-640.650(3)(a)(3), 62-640.700(5)(a), 62-640.700(5)(b) and 62-640.850(4)]

15. 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 Sampling and Analysis Guidance Document, the requirements in 40 CFR Part 503.8 will apply. [62-640.650(3)(a)1]
16. 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]
17. Biosolids samples shall be taken at the monitoring site locations listed in Permit Condition II.B.14 and as described below:

Monitoring Site Number	Description of Monitoring Site
RMP-AA	Class AA Biosolids – After treatment, before distribution

C. Distribution and Marketing

- 18. Biosolids or biosolids products may be distributed and marketed only if the biosolids or biosolids products meet Class AA standards and are either sold or given-away under a Florida fertilizer license or distributed and marketed to a person or entity that will sell or give-away the biosolids or biosolids products under Florida fertilizer license. Biosolids composts that are enrolled and certified under the U.S. Composting Council's Seal of Testing Assurance (USCC STA) program do not have to be sold or given-away under a Florida fertilizer license except if distributed and marketed within the Lake Okeechobee, St. Lucie River, and Caloosahatchee River watersheds. *[62-640.850]*
- 19. 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)]*
- 20. 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)]

D. Disposal

- 21. 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)]*

E. Transfer

- 22. 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)]*
- 23. 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	Biosolids Treatment Facility or Treatment Facility
1. Date and time shipped	1. Date and time received
2. Amount of biosolids shipped	2. Amount of biosolids received
3. Degree of treatment (if applicable)	3. Name and ID number of source facility
4. Name and ID Number of treatment facility	4. Signature of hauler
5. Signature of responsible party at source facility	5. Signature of responsible party at treatment facility
6. Signature of hauler and name of hauling firm	

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)]

F. Receipt

24. The permittee shall be responsible for proper treatment, management, and disposition of biosolids accepted from source facilities. *[62-640.880(1)(a)]*
25. The permittee shall enter into a written agreement with each source facility that it intends to receive biosolids from. The agreement shall address the quality and quantity of the biosolids accepted by the permittee. The agreement shall include a statement, signed by the permittee, as to the availability of sufficient permitted capacity to receive the biosolids from the source facility, and indicating that the permittee will continue to operate in compliance with the requirements of its permit. The agreement shall also address responsibility during transport of biosolids between the facilities. The permittee shall submit a copy of this agreement to the Department's Southwest District Office at least 30 days before transporting biosolids from the source facility to the permittee. *[62-640.880(1)(c)]*

III. GROUND WATER REQUIREMENTS

Ground water monitoring requirements are contained in the Manatee County Master Reuse System (MCMRS), Permit No. FLA474029.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

G. Part III Public Access System(s)

1. Cross-connections to the potable water system are prohibited. *[62-610.469(7)]*
2. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use and shall be in compliance with the Rule 62-555.360, F.A.C. *[62-610.469(7)]*
3. The permittee shall conduct inspections within the reclaimed water service area to verify proper connections, to minimize illegal cross-connections, and to verify both the proper use of reclaimed water and that the proper backflow prevention assemblies or devices have been installed and tested. Inspections are required when a customer first connects to the reuse distribution system. Subsequent inspections are required as specified in the cross-connection control and inspection program. *[62-610.469(7)(h)]*
4. If an actual or potential (e.g. no dual check device on residential connections served by a reuse system) cross-connection between the potable and reclaimed water systems is discovered, the permittee shall:
 - a. Immediately discontinue potable water and/or reclaimed water service to the affected area if an actual cross-connection is discovered.
 - b. If the potable water system is contaminated, clear the potable water lines.
 - c. Eliminate the cross-connection and install a backflow prevention device as required by the Rule 62-555.360.F.A.C.
 - d. Test the affected area for other possible cross-connections.
 - e. Within 24 hours, notify the Department's Southwest District Office's domestic wastewater and drinking water programs.

- f. Within 5 days of discovery of an actual or potential cross-connection, submit a written report to the Department's Southwest District Office detailing: a description of the cross-connection, how the cross-connection was discovered, the exact date and time of discovery, approximate time that the cross-connection existed, the location, the cause, steps taken to eliminate the cross-connection, whether reclaimed water was consumed, and reports of possible illness, whether the drinking water system was contaminated and the steps taken to clear the drinking water system, when the cross-connection was eliminated, plan of action for testing for other possible cross-connections in the area, and an evaluation of the cross-connection control and inspection program to ensure that future cross-connections do not occur.

[62-555.350(3) and 62-555.360][62-620.610(20)]

5. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal or concrete shall be color coded using Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as the predominant color. *[62-610.469(7)]*
6. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. *[62-610.471(3)]*
7. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. *[62-610.471(1), (2), (5), and (7)]*
8. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. *[62-610.469(4)]*
9. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. *[62-610.471(6)]*
10. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. *[62-610.471(8)]*
11. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. *[62-610.468(2)]*
12. All new advisory signs and labels on vaults, service boxes, or compartments that house hose bibbs along with all labels on hose bibbs, valves, and outlets shall bear the words "do not drink" and "no beber" along with the equivalent standard international symbol. In addition to the words "do not drink" and "no beber," advisory signs posted at storage ponds and decorative water features shall also bear the words "do not swim" and "no nadar" along with the equivalent standard international symbols. Existing advisory signs and labels shall be retrofitted, modified, or replaced in order to comply with the revised wording requirements. For existing advisory signs and labels this retrofit, modification, or replacement shall occur within 365 days after the date of this permit. For labels on existing vaults, service boxes, or compartments housing hose bibbs this retrofit, modification, or replacement shall occur within 730 days after the date of this permit. *[62-610.468, 62-610.469]*
13. The permittee shall ensure that users of reclaimed water are informed about the origin, nature, and characteristics of reclaimed water; the manner in which reclaimed water can be safely used; and limitations on the use of reclaimed water. Notification is required at the time of initial connection to the reclaimed water distribution system and annually after the reuse system is placed into operation. A description of on-going public notification activities shall be included in the Annual Reuse Report. *[62-610.468(6)]*

14. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.414(8)]
15. Overflows from emergency discharge facilities on storage ponds shall be reported as abnormal events in accordance with Permit Condition IX.20. [62-610.800(9)]

H. Part IV Rapid Infiltration Basins

1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. [62-610.518]
2. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. [62-610.523(6) and (7)]
3. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.514 and 62-610.414]
4. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as abnormal events in accordance with Permit Condition IX.20. [62-610.800(9)]

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. Submit an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C., five years from the date of issuance of this permit. [62-600.405(5)] (Only applicable to facilities that meet the criteria in Section 403.087(3), F.S. and are being issued permits for terms exceeding five years.)
2. 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)]
3. 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.

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- a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
- b. Copies of all reports 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 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 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)]

VI. SCHEDULES

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

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

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility's pretreatment program requirements are included in the Manatee County Southwest Regional WWTP permit issued by the Department under Permit Number FLA012619.
2. As required by Rules 62-625.600(8) and (12), F.A.C., the permittee shall submit DMRs for Monitoring Site Numbers PRT-I, PRT-E, and PRT-R to the Manatee County Southwest Regional WWTP (FLA012619) for inclusion in the annual report.*[62-625.600(8)]*
3. Samples for Monitoring Site Numbers PRT-I, PRT-E, and PRT-R shall be taken at the monitoring site locations described below:

Monitoring Location Site Number	Description of Monitoring Location
PRT-I	Influent pretreatment sample location
PRT-E	Effluent pretreatment sample location
PRT-R	Residuals pretreatment sample location

VIII. OTHER SPECIFIC CONDITIONS

1. 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 residuals 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)]*
2. 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)]*
3. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
4. 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
 - 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)]
5. 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. *[62-610.518(1) and 62-600.400(2)(b)]*
6. 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)]*
7. 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)]*

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8. The permittee shall provide verbal notice to the Department's Southwest 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 residuals (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 Southwest District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*

IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2)]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3)]*
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5)]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6)]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7)]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8)]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
 - 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;

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- b. Have access to and copy any records that shall be kept under the conditions of this permit;
- c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
- d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

[62-620.610(9)]

- 10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
- 11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
- 12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
- 13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
- 14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
- 15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
- 16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
- 17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - 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.
 - 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 Southwest District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
 - b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WATCH OFFICE TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
 - (a) Name, address, and telephone number of person reporting;

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- (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Southwest 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 Southwest 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)]

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.

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- (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 Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



for Kelley M. Boatwright
Program Administrator
Permitting & Waste Cleanup Program

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: R-001
 MONITORING GROUP DESCRIPTION: Public access reuse water, including 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, to R-001	Sample Measurement									
PARM Code 50050 Y Mon. Site No. FLW-02	Permit Requirement	11.0 (An.Avg.)	MGD						Continuous	Flow Meter with Totalizer
Flow, to R-001	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-02	Permit Requirement	Report (Mo.Avg.)	MGD						Continuous	Flow Meter with Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement									
PARM Code 80082 Y Mon. Site No. EFA-01	Permit Requirement			20.0 (An.Avg.)			mg/L		Monthly	Calculated
BOD, Carbonaceous 5 day, 20C	Sample Measurement									
PARM Code 80082 A Mon. Site No. EFA-01	Permit Requirement			60.0 (Max.)	45.0 (Max.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	Sample Measurement									
PARM Code 00400 A Mon. Site No. EFA-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 AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP R-001

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site No. EFA-01	Sample Measurement										
	Permit Requirement				75 (Min.Mo.Total)			percent		Monthly	Calculated
Coliform, Fecal PARM Code 74055 A Mon. Site No. EFA-01	Sample Measurement										
	Permit Requirement					25 (Max.)		#/100mL		Daily; 24 hours	Grab
Chlorine, Total Residual (For Disinfection) PARM Code 50060 A Mon. Site No. EFA-01	Sample Measurement										
	Permit Requirement				1.0 (Min.)			mg/L		Continuous	Meter
Turbidity PARM Code 00070 B Mon. Site No. EFB-01	Sample Measurement										
	Permit Requirement					Report (Max.)		NTU		Continuous	Meter
Nitrogen, Total (as N) PARM Code 00600 A Mon. Site No. EFA-01	Sample Measurement										
	Permit Requirement					Report (Max.)		mg/L		Monthly	24-hr FPC
Phosphorus, Total (as P) PARM Code 00665 A Mon. Site No. EFA-01	Sample Measurement										
	Permit Requirement					Report (Max.)		mg/L		Monthly	24-hr FPC
Flow, Total Plant PARM Code 50050 P Mon. Site No. FLW-01	Sample Measurement										
	Permit Requirement		11.0 (3Mo.Avg.)	MGD						Monthly	Calculated
Flow, Total Plant PARM Code 50050 Q Mon. Site No. FLW-01	Sample Measurement										
	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Meter with Totalizer
Percent Capacity, (TMADF/Permitted Capacity) x 100 PARM Code 00180 1 Mon. Site No. FLW-01	Sample Measurement										
	Permit Requirement					Report (Mo.Total)		percent		Monthly	Calculated
BOD, Carbonaceous 5 day, 20C (Influent) PARM Code 80082 G Mon. Site No. INF-01	Sample Measurement										
	Permit Requirement					Report (Mo.Avg.)		mg/L		Weekly	24-hr FPC

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: R-002
 MONITORING GROUP DESCRIPTION: RIB (R-002)

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, to R-002	Sample Measurement							
PARM Code 50050 Y Mon. Site No. FLW-05	Permit Requirement	Report (An.Avg.)	MGD				Monthly	Flow Meter with Totalizer
Flow, to R-002	Sample Measurement							
PARM Code 50050 1 Mon. Site No. FLW-05	Permit Requirement	Report (Mo.Avg.)	MGD				Monthly	Flow Meter with Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement							
PARM Code 80082 Y Mon. Site No. EFA-01	Permit Requirement			20.0 (An.Avg.)	mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement							
PARM Code 80082 A Mon. Site No. EFA-01	Permit Requirement			60.0 (Max.) 45.0 (Max.Wk.Avg.) 30.0 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement							
PARM Code 00530 Y Mon. Site No. EFA-01	Permit Requirement			20.0 (An.Avg.)	mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement							
PARM Code 00530 B Mon. Site No. EFA-01	Permit Requirement			60.0 (Max.) 45.0 (Max.Wk.Avg.) 30.0 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP R-002

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement									
PARM Code 00400 A Mon. Site No. EFA-01	Permit Requirement				6.0 (Min.)	8.5 (Max.)	s.u.		Continuous	Grab
Coliform, Fecal	Sample Measurement									
PARM Code 74055 Y Mon. Site No. EFA-01	Permit Requirement				200 (An.Avg.)		#/100mL		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement									
PARM Code 74055 A Mon. Site No. EFA-01	Permit Requirement				200 (Mo.Geo.Mn.)	800 (Max.)	#/100mL		5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	Sample Measurement									
PARM Code 50060 A Mon. Site No. EFA-01	Permit Requirement				0.5 (Min.)		mg/L		Continuous	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement									
PARM Code 00620 A Mon. Site No. EFA-01	Permit Requirement					12.0 (Max.)	mg/L		5 Days/Week	24-hr FPC

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

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

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, Sludge, Tot, Dry Wt, (as As)	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.

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RMP-AA

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Sludge, Tot, Dry Wt. (as Pb)	Sample Measurement									
PARM Code 78468 + Mon. Site No. RMP-AA	Permit Requirement				300.0 (Mo.Avg.)	840.0 (Max.)	mg/kg		Monthly	Composite
Mercury, Sludge, Tot, Dry Wt. (as Hg)	Sample Measurement									
PARM Code 78471 + Mon. Site No. RMP-AA	Permit Requirement				17.0 (Mo.Avg.)	57.0 (Max.)	mg/kg		Monthly	Composite
Molybdenum, Sludge, Tot, Dry Wt. (as Mo)	Sample Measurement									
PARM Code 78465 + Mon. Site No. RMP-AA	Permit Requirement					75.0 (Max.)	mg/kg		Monthly	Composite
Nickel, Sludge, Tot, Dry Wt. (as Ni)	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, Tot, Dry Wt. (as Se)	Sample Measurement									
PARM Code 61518 + Mon. Site No. RMP-AA	Permit Requirement				100.0 (Mo.Avg.)	100.0 (Max.)	mg/kg		Monthly	Composite
Zinc, Sludge, Tot, Dry Wt. (as Zn)	Sample Measurement									
PARM Code 78467 + Mon. Site No. RMP-AA	Permit Requirement				2800.0 (Mo.Avg.)	7500.0 (Max.)	mg/kg		Monthly	Composite
Temperature (C)	Sample Measurement									
PARM Code 00010 + Mon. Site No. RMP-AA	Permit Requirement		80 (Min.)	Deg C					Continuous	Meter
Solids, Total, Sludge, Percent	Sample Measurement									
PARM Code 61553 + Mon. Site No. RMP-AA	Permit Requirement				Report (Mo.Avg.)	90 (Min.)	percent		Monthly	Composite
Coliform, Fecal, Sludge	Sample Measurement									
PARM Code 74055 + Mon. Site No. RMP-AA	Permit Requirement		1000.0 (Max.)	MPN/g					Monthly	Grab
Salmonella	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, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: RMP-Q
 MONITORING GROUP DESCRIPTION: Biosolids Quantity

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
Biosolids Quantity (Received)	Sample Measurement										
PARM Code B0002 Mon. Site No. RMP-01	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Distributed & Marketed in Florida)	Sample Measurement										
PARM Code B0004 Mon. Site No. RMP-02	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Distributed & Marketed outside of Florida)	Sample Measurement										
PARM Code B0004 Mon. Site No. RMP-03	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Transferred)	Sample Measurement										
PARM Code B0007 Mon. Site No. RMP-04	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Landfilled)	Sample Measurement										
PARM Code B0008 Mon. Site No. RMP-05	Permit Requirement		Report (Mo.Total)	dry tons						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 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, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: PRT-I
 MONITORING GROUP DESCRIPTION: Influent Pretreatment

RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement								
PARM Code 00400 G Mon. Site No. PRT-I	Permit Requirement			Report (Min.)	Report (Max.)	s.u.		Annually	Grab
Oil and Grease, hexane extr method	Sample Measurement								
PARM Code 00552 G Mon. Site No. PRT-I	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/L		Annually	Grab
Benzene	Sample Measurement								
PARM Code 34030 G Mon. Site No. PRT-I	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Bromoform	Sample Measurement								
PARM Code 32104 G Mon. Site No. PRT-I	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Carbon tetrachloride	Sample Measurement								
PARM Code 32102 G Mon. Site No. PRT-I	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chlorobenzene	Sample Measurement								
PARM Code 34301 G Mon. Site No. PRT-I	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

*FOR THOSE PARAMETERS THAT ARE SAMPLED ANNUALLY, THE MAXIMUM AND AVERAGE CONCENTRATIONS ARE EQUIVALENT AND SHALL BE REPORTED AS SUCH ON THE DMR.

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Chlorodibromomethane	Sample Measurement									
PARM Code 34306 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroethane	Sample Measurement									
PARM Code 85811 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
2-chloroethyl vinyl ether (mixed)	Sample Measurement									
PARM Code 34576 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroform	Sample Measurement									
PARM Code 32106 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Dichlorobromomethane	Sample Measurement									
PARM Code 32101 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichlorobenzene	Sample Measurement									
PARM Code 34536 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,3-dichlorobenzene	Sample Measurement									
PARM Code 34566 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,4-dichlorobenzene	Sample Measurement									
PARM Code 34571 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1-dichloroethane	Sample Measurement									
PARM Code 34496 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichloroethane	Sample Measurement									
PARM Code 32103 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
1,1-dichloroethylene	Sample Measurement									
PARM Code 34501 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichloropropane	Sample Measurement									
PARM Code 34541 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,3-dichloropropene	Sample Measurement									
PARM Code 77163 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Ethylbenzene	Sample Measurement									
PARM Code 34371 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methyl bromide	Sample Measurement									
PARM Code 34413 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methyl chloride	Sample Measurement									
PARM Code 34418 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methylene chloride	Sample Measurement									
PARM Code 34423 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1,2,2-tetrachloroethane	Sample Measurement									
PARM Code 34516 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Tetrachloroethylene	Sample Measurement									
PARM Code 34475 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Toluene	Sample Measurement									
PARM Code 34010 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-trans-dichloroethylene	Sample Measurement									
PARM Code 34546 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1,1-trichloroethane	Sample Measurement									
PARM Code 34506 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1,2-trichloroethane	Sample Measurement									
PARM Code 34511 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Trichloroethylene	Sample Measurement									
PARM Code 39180 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Vinyl chloride	Sample Measurement									
PARM Code 39175 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
2-chlorophenol	Sample Measurement									
PARM Code 34586 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dichlorophenol	Sample Measurement									
PARM Code 34601 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dimethylphenol	Sample Measurement									
PARM Code 34606 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,6-dinitro-o-cresol	Sample Measurement									
PARM Code 34657 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dinitrophenol	Sample Measurement									
PARM Code 34616 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
2-nitrophenol	Sample Measurement									
PARM Code 34591 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4-nitrophenol	Sample Measurement									
PARM Code 34646 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
p-chloro-m-cresol	Sample Measurement									
PARM Code 82627 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Pentachlorophenol	Sample Measurement									
PARM Code 39032 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Phenol, Single Compound	Sample Measurement									
PARM Code 34694 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4,6-trichlorophenol	Sample Measurement									
PARM Code 34621 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Acenaphthene	Sample Measurement									
PARM Code 34205 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Acenaphthylene	Sample Measurement									
PARM Code 34200 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Anthracene	Sample Measurement									
PARM Code 34220 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzidine	Sample Measurement									
PARM Code 39120 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Benzo(a)anthracene	Sample Measurement									
PARM Code 34526 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(a)pyrene	Sample Measurement									
PARM Code 34247 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(b)fluoranthene (3,4-benzo)	Sample Measurement									
PARM Code 79531 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(ghi)perylene	Sample Measurement									
PARM Code 34521 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(k)fluoranthene	Sample Measurement									
PARM Code 34242 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-chloroethoxy) methane	Sample Measurement									
PARM Code 34278 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-chloroethyl) ether	Sample Measurement									
PARM Code 34273 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-chloroisopropyl) ether	Sample Measurement									
PARM Code 34283 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate	Sample Measurement									
PARM Code 39100 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4-bromophenyl phenyl ether	Sample Measurement									
PARM Code 34636 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Butyl benzyl phthalate	Sample Measurement									
PARM Code 34292 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2-chloronaphthalene	Sample Measurement									
PARM Code 34581 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4-chlorophenyl phenyl ether	Sample Measurement									
PARM Code 34641 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chrysene	Sample Measurement									
PARM Code 34320 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Dibenzo (a,h) anthracene	Sample Measurement									
PARM Code 34556 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
3,3'-dichlorobenzidine	Sample Measurement									
PARM Code 34631 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Diethyl phthalate	Sample Measurement									
PARM Code 34336 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Dimethyl phthalate	Sample Measurement									
PARM Code 34341 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Di-n-butyl phthalate	Sample Measurement									
PARM Code 39110 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dinitrotoluene	Sample Measurement									
PARM Code 34611 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
2,6-dinitrotoluene	Sample Measurement									
PARM Code 34626 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Di-n-octyl phthalate	Sample Measurement									
PARM Code 34596 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
1,2-diphenylhydrazine	Sample Measurement									
PARM Code 34346 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Fluoranthene	Sample Measurement									
PARM Code 34376 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Fluorene	Sample Measurement									
PARM Code 34381 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorobenzene	Sample Measurement									
PARM Code 39700 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorobutadiene	Sample Measurement									
PARM Code 39702 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorocyclopentadiene	Sample Measurement									
PARM Code 34386 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachloroethane	Sample Measurement									
PARM Code 34396 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Indeno (1,2,3-Cd) pyrene	Sample Measurement									
PARM Code 34403 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Isophorone	Sample Measurement									
PARM Code 34408 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Naphthalene	Sample Measurement									
PARM Code 34696 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Nitrobenzene	Sample Measurement									
PARM Code 34447 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
N-nitrosodimethylamine	Sample Measurement									
PARM Code 34438 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
N-nitrosodi-n-propylamine	Sample Measurement									
PARM Code 34428 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
N-nitrosodiphenylamine	Sample Measurement									
PARM Code 34433 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Phenanthrene	Sample Measurement									
PARM Code 34461 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Pyrene	Sample Measurement									
PARM Code 34469 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
1,2,4-trichlorobenzene	Sample Measurement									
PARM Code 34551 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Aldrin	Sample Measurement									
PARM Code 39330 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Alpha-bhc	Sample Measurement									
PARM Code 39336 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
B-bhc-beta	Sample Measurement									
PARM Code 39338 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Gamma BHC (Lindane)	Sample Measurement									
PARM Code 39782 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Delta benzene hexachloride	Sample Measurement									
PARM Code 34259 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chlordane (tech mix. and metabolites)	Sample Measurement									
PARM Code 39350 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,4'-DDT (p,p'-DDT)	Sample Measurement									
PARM Code 39300 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,4'-DDE (p,p'-DDE)	Sample Measurement									
PARM Code 39320 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,4'-DDD (p,p'-DDD)	Sample Measurement									
PARM Code 39310 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Dieldrin	Sample Measurement									
PARM Code 39380 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
A-endosulfan-alpha	Sample Measurement									
PARM Code 34361 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
B-endosulfan-beta	Sample Measurement									
PARM Code 34356 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endosulfan sulfate	Sample Measurement									
PARM Code 34351 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endrin	Sample Measurement									
PARM Code 39390 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endrin aldehyde	Sample Measurement									
PARM Code 34366 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor	Sample Measurement									
PARM Code 39410 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor epoxide	Sample Measurement									
PARM Code 39420 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1242	Sample Measurement									
PARM Code 39496 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1254	Sample Measurement									
PARM Code 39504 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1221	Sample Measurement									
PARM Code 39488 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1232	Sample Measurement									
PARM Code 39492 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
PCB-1248	Sample Measurement									
PARM Code 39500 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1260	Sample Measurement									
PARM Code 39508 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1016	Sample Measurement									
PARM Code 34671 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Toxaphene	Sample Measurement									
PARM Code 39400 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Antimony, Total Recoverable	Sample Measurement									
PARM Code 01268 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable	Sample Measurement									
PARM Code 00978 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable	Sample Measurement									
PARM Code 00998 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable	Sample Measurement									
PARM Code 01113 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chromium, Total Recoverable	Sample Measurement									
PARM Code 01118 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Copper, Total Recoverable	Sample Measurement									
PARM Code 01119 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-I

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Total Recoverable	Sample Measurement									
PARM Code 01114 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Mercury, Total Recoverable	Sample Measurement									
PARM Code 71901 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Nickel, Total Recoverable	Sample Measurement									
PARM Code 01074 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Selenium, Total Recoverable	Sample Measurement									
PARM Code 00981 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Silver, Total Recoverable	Sample Measurement									
PARM Code 01079 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Thallium, Total Recoverable	Sample Measurement									
PARM Code 00982 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Zinc, Total Recoverable	Sample Measurement									
PARM Code 01094 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Cyanide, Total Recoverable	Sample Measurement									
PARM Code 78248 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Phenolic Compounds, Total Recoverable	Sample Measurement									
PARM Code 70029 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: PRT-E
 MONITORING GROUP DESCRIPTION: Effluent Pretreatment

RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement								
PARM Code 00400 1 Mon. Site No. PRT-E	Permit Requirement			Report (Min.)	Report (Max.)	s.u.		Annually	Grab
Oil and Grease, hexane extr method	Sample Measurement								
PARM Code 00552 1 Mon. Site No. PRT-E	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/L		Annually	Grab
Benzene	Sample Measurement								
PARM Code 34030 1 Mon. Site No. PRT-E	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Bromoform	Sample Measurement								
PARM Code 32104 1 Mon. Site No. PRT-E	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Carbon tetrachloride	Sample Measurement								
PARM Code 32102 1 Mon. Site No. PRT-E	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chlorobenzene	Sample Measurement								
PARM Code 34301 1 Mon. Site No. PRT-E	Permit Requirement			Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

*FOR THOSE PARAMETERS THAT ARE SAMPLED ANNUALLY, THE MAXIMUM AND AVERAGE CONCENTRATIONS ARE EQUIVALENT AND SHALL BE REPORTED AS SUCH ON THE DMR.

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Chlorodibromomethane	Sample Measurement									
PARM Code 34306 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroethane	Sample Measurement									
PARM Code 85811 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
2-chloroethyl vinyl ether (mixed)	Sample Measurement									
PARM Code 34576 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroform	Sample Measurement									
PARM Code 32106 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Dichlorobromomethane	Sample Measurement									
PARM Code 32101 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichlorobenzene	Sample Measurement									
PARM Code 34536 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,3-dichlorobenzene	Sample Measurement									
PARM Code 34566 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,4-dichlorobenzene	Sample Measurement									
PARM Code 34571 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1-dichloroethane	Sample Measurement									
PARM Code 34496 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichloroethane	Sample Measurement									
PARM Code 32103 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
1,1-dichloroethylene	Sample Measurement									
PARM Code 34501 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichloropropane	Sample Measurement									
PARM Code 34541 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,3-dichloropropene	Sample Measurement									
PARM Code 77163 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Ethylbenzene	Sample Measurement									
PARM Code 34371 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methyl bromide	Sample Measurement									
PARM Code 34413 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methyl chloride	Sample Measurement									
PARM Code 34418 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methylene chloride	Sample Measurement									
PARM Code 34423 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1,2,2-tetrachloroethane	Sample Measurement									
PARM Code 34516 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Tetrachloroethylene	Sample Measurement									
PARM Code 34475 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Toluene	Sample Measurement									
PARM Code 34010 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-trans-dichloroethylene	Sample Measurement									
PARM Code 34546 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1,1-trichloroethane	Sample Measurement									
PARM Code 34506 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1,2-trichloroethane	Sample Measurement									
PARM Code 34511 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Trichloroethylene	Sample Measurement									
PARM Code 39180 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Vinyl chloride	Sample Measurement									
PARM Code 39175 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
2-chlorophenol	Sample Measurement									
PARM Code 34586 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dichlorophenol	Sample Measurement									
PARM Code 34601 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dimethylphenol	Sample Measurement									
PARM Code 34606 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,6-dinitro-o-cresol	Sample Measurement									
PARM Code 34657 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dinitrophenol	Sample Measurement									
PARM Code 34616 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
2-nitrophenol	Sample Measurement									
PARM Code 34591 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4-nitrophenol	Sample Measurement									
PARM Code 34646 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
p-chloro-m-cresol	Sample Measurement									
PARM Code 82627 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Pentachlorophenol	Sample Measurement									
PARM Code 39032 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Phenol, Single Compound	Sample Measurement									
PARM Code 34694 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4,6-trichlorophenol	Sample Measurement									
PARM Code 34621 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Acenaphthene	Sample Measurement									
PARM Code 34205 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Acenaphthylene	Sample Measurement									
PARM Code 34200 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Anthracene	Sample Measurement									
PARM Code 34220 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzidine	Sample Measurement									
PARM Code 39120 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Benzo(a)anthracene	Sample Measurement									
PARM Code 34526 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(a)pyrene	Sample Measurement									
PARM Code 34247 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(b)fluoranthene (3,4-benzo)	Sample Measurement									
PARM Code 79531 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(ghi)perylene	Sample Measurement									
PARM Code 34521 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(k)fluoranthene	Sample Measurement									
PARM Code 34242 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-chloroethoxy) methane	Sample Measurement									
PARM Code 34278 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-chloroethyl) ether	Sample Measurement									
PARM Code 34273 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-chloroisopropyl) ether	Sample Measurement									
PARM Code 34283 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate	Sample Measurement									
PARM Code 39100 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4-bromophenyl phenyl ether	Sample Measurement									
PARM Code 34636 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Butyl benzyl phthalate	Sample Measurement									
PARM Code 34292 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2-chloronaphthalene	Sample Measurement									
PARM Code 34581 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4-chlorophenyl phenyl ether	Sample Measurement									
PARM Code 34641 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chrysene	Sample Measurement									
PARM Code 34320 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Dibenzo (a,h) anthracene	Sample Measurement									
PARM Code 34556 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
3,3'-dichlorobenzidine	Sample Measurement									
PARM Code 34631 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Diethyl phthalate	Sample Measurement									
PARM Code 34336 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Dimethyl phthalate	Sample Measurement									
PARM Code 34341 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Di-n-butyl phthalate	Sample Measurement									
PARM Code 39110 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dinitrotoluene	Sample Measurement									
PARM Code 34611 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
2,6-dinitrotoluene	Sample Measurement									
PARM Code 34626 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Di-n-octyl phthalate	Sample Measurement									
PARM Code 34596 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
1,2-diphenylhydrazine	Sample Measurement									
PARM Code 34346 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Fluoranthene	Sample Measurement									
PARM Code 34376 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Fluorene	Sample Measurement									
PARM Code 34381 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorobenzene	Sample Measurement									
PARM Code 39700 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorobutadiene	Sample Measurement									
PARM Code 39702 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorocyclopentadiene	Sample Measurement									
PARM Code 34386 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Hexachloroethane	Sample Measurement									
PARM Code 34396 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Indeno (1,2,3-Cd) pyrene	Sample Measurement									
PARM Code 34403 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Isophorone	Sample Measurement									
PARM Code 34408 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Naphthalene	Sample Measurement									
PARM Code 34696 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Nitrobenzene	Sample Measurement									
PARM Code 34447 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
N-nitrosodimethylamine	Sample Measurement									
PARM Code 34438 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
N-nitrosodi-n-propylamine	Sample Measurement									
PARM Code 34428 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
N-nitrosodiphenylamine	Sample Measurement									
PARM Code 34433 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Phenanthrene	Sample Measurement									
PARM Code 34461 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Pyrene	Sample Measurement									
PARM Code 34469 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
1,2,4-trichlorobenzene	Sample Measurement									
PARM Code 34551 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Aldrin	Sample Measurement									
PARM Code 39330 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Alpha-bhc	Sample Measurement									
PARM Code 39336 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
B-bhc-beta	Sample Measurement									
PARM Code 39338 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Gamma BHC (Lindane)	Sample Measurement									
PARM Code 39782 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Delta benzene hexachloride	Sample Measurement									
PARM Code 34259 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chlordane (tech mix. and metabolites)	Sample Measurement									
PARM Code 39350 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,4'-DDT (p,p'-DDT)	Sample Measurement									
PARM Code 39300 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,4'-DDE (p,p'-DDE)	Sample Measurement									
PARM Code 39320 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
4,4'-DDD (p,p'-DDD)	Sample Measurement									
PARM Code 39310 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Dieldrin	Sample Measurement									
PARM Code 39380 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
A-endosulfan-alpha	Sample Measurement									
PARM Code 34361 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
B-endosulfan-beta	Sample Measurement									
PARM Code 34356 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endosulfan sulfate	Sample Measurement									
PARM Code 34351 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endrin	Sample Measurement									
PARM Code 39390 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endrin aldehyde	Sample Measurement									
PARM Code 34366 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor	Sample Measurement									
PARM Code 39410 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor epoxide	Sample Measurement									
PARM Code 39420 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1242	Sample Measurement									
PARM Code 39496 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1254	Sample Measurement									
PARM Code 39504 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1221	Sample Measurement									
PARM Code 39488 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1232	Sample Measurement									
PARM Code 39492 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
PCB-1248	Sample Measurement									
PARM Code 39500 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1260	Sample Measurement									
PARM Code 39508 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1016	Sample Measurement									
PARM Code 34671 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Toxaphene	Sample Measurement									
PARM Code 39400 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Antimony, Total Recoverable	Sample Measurement									
PARM Code 01268 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable	Sample Measurement									
PARM Code 00978 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable	Sample Measurement									
PARM Code 00998 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable	Sample Measurement									
PARM Code 01113 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chromium, Total Recoverable	Sample Measurement									
PARM Code 01118 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Copper, Total Recoverable	Sample Measurement									
PARM Code 01119 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP PRT-E

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Total Recoverable	Sample Measurement									
PARM Code 01114 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Mercury, Total Recoverable	Sample Measurement									
PARM Code 71901 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Nickel, Total Recoverable	Sample Measurement									
PARM Code 01074 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Selenium, Total Recoverable	Sample Measurement									
PARM Code 00981 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Silver, Total Recoverable	Sample Measurement									
PARM Code 01079 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Thallium, Total Recoverable	Sample Measurement									
PARM Code 00982 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Zinc, Total Recoverable	Sample Measurement									
PARM Code 01094 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Cyanide, Total Recoverable	Sample Measurement									
PARM Code 78248 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Phenolic Compounds, Total Recoverable	Sample Measurement									
PARM Code 70029 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: PRT-R
 MONITORING GROUP DESCRIPTION: Residuals Pretreatment

RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Arsenic, Sludge, Tot. Dry Wt. (as As)	Sample Measurement								
PARM Code 49565 + Mon. Site No. PRT-R	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite
Cadmium, Sludge, Tot. Dry Wt. (as Cd)	Sample Measurement								
PARM Code 78476 + Mon. Site No. PRT-R	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite
Copper, Sludge, Tot. Dry Wt. (as Cu)	Sample Measurement								
PARM Code 78475 + Mon. Site No. PRT-R	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite
Lead, Sludge, Tot. Dry Wt. (as Pb)	Sample Measurement								
PARM Code 78468 + Mon. Site No. PRT-R	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite
Mercury, Sludge, Tot. Dry Wt. (as Hg)	Sample Measurement								
PARM Code 78471 + Mon. Site No. PRT-R	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite
Molybdenum, Sludge, Tot. Dry Wt. (as Mo)	Sample Measurement								
PARM Code 78465 + Mon. Site No. PRT-R	Permit Requirement			Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite

*FOR THOSE PARAMETERS THAT ARE SAMPLED ANNUALLY, THE MAXIMUM AND AVERAGE CONCENTRATIONS ARE EQUIVALENT AND SHALL BE REPORTED AS SUCH ON THE DMR.

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, Southwest District Office, Compliance Assurance Program, Attn: Domestic Wastewater, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, swd_dw@dep.state.fl.us

PERMITTEE NAME: Manatee County Utilities Department
 MAILING ADDRESS: 4410 66th Street West
 Bradenton, Florida 34210

FACILITY: Manatee County Southeast Regional WRF
 LOCATION: 3331 Lena Rd.
 Bradenton, FL 34211

COUNTY: Manatee
 OFFICE: Southwest District

PERMIT NUMBER: FLA012618-021-DW1P/NRL

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: RWS-A
 MONITORING GROUP DESCRIPTION: Annual Reclaimed Water or Effluent Analysis

RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING NOT REQUIRED:
 MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable (GWS = 6)*	Sample Measurement							
PARM Code 01268 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable (GWS = 10)	Sample Measurement							
PARM Code 00978 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Barium, Total Recoverable (GWS = 2,000)	Sample Measurement							
PARM Code 01009 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable (GWS = 4)	Sample Measurement							
PARM Code 00998 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable (GWS = 5)	Sample Measurement							
PARM Code 01113 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Chromium, Total Recoverable (GWS =100)	Sample Measurement							
PARM Code 01118 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC

*GROUND WATER STANDARD (GWS) FOR REFERENCE AND REVIEW ONLY.

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Free (amen. to chlorination)(GWS = 200) PARM Code 00722 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L Grab
Fluoride, Total (as F) (GWS = 4.0/2.0) PARM Code 00951 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	mg/L 24-hr FPC
Lead, Total Recoverable (GWS = 15) PARM Code 01114 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Mercury, Total Recoverable (GWS = 2) PARM Code 71901 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Nickel, Total Recoverable (GWS = 100) PARM Code 01074 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Nitrogen, Nitrate, Total (as N) (GWS = 10) PARM Code 00620 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	mg/L 24-hr FPC
Nitrogen, Nitrite, Total (as N) (GWS = 1) PARM Code 00615 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	mg/L 24-hr FPC
Nitrite plus Nitrate, Total 1 det. (as N)(GWS = 10) PARM Code 00630 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	mg/L 24-hr FPC
Selenium, Total Recoverable (GWS =50) PARM Code 00981 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Sodium, Total Recoverable (GWS = 160) PARM Code 00923 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	mg/L 24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 00982 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
1,1-dichloroethylene (GWS = 7)	Sample Measurement										
PARM Code 34501 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
1,1,1-trichloroethane (GWS = 200)	Sample Measurement										
PARM Code 34506 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
1,1,2-trichloroethane (GWS = 5)	Sample Measurement										
PARM Code 34511 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
1,2-dichloroethane (GWS = 3)	Sample Measurement										
PARM Code 32103 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
1,2-dichloropropane (GWS = 5)	Sample Measurement										
PARM Code 34541 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
1,2,4-trichlorobenzene (GWS = 70)	Sample Measurement										
PARM Code 34551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Benzene (GWS = 1)	Sample Measurement										
PARM Code 34030 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
Carbon tetrachloride (GWS = 3)	Sample Measurement										
PARM Code 32102 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
Cis-1,2-dichloroethene (GWS = 70)	Sample Measurement										
PARM Code 81686 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Dichloromethane (methylene chloride)(GWS = 5) PARM Code 03821 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
Ethylbenzene (GWS = 700) PARM Code 34371 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
Monochlorobenzene (GWS = 100) PARM Code 34031 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
1,2-dichlorobenzene (GWS = 600) PARM Code 34536 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
1,4-dichlorobenzene (GWS = 75) PARM Code 34571 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
Styrene, Total (GWS = 100) PARM Code 77128 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
Tetrachloroethylene (GWS = 3) PARM Code 34475 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
Toluene (GWS = 1,000) PARM Code 34010 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
1,2-trans-dichloroethylene (GWS = 100) PARM Code 34546 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab
Trichloroethylene (GWS = 3) PARM Code 39180 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride (GWS = 1) PARM Code 39175 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L Grab
Xylenes (GWS = 10,000) PARM Code 81551 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L Grab
2,3,7,8-tetrachlorodibenzo-p-dioxin(GWS = 3x10^-5) PARM Code 34675 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
2,4-dichlorophenoxyacetic acid (GWS = 70) PARM Code 39730 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Silvex (GWS = 50) PARM Code 39760 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Alachlor (GWS = 2) PARM Code 39161 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Atrazine (GWS = 3) PARM Code 39033 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Benzo(a)pyrene (GWS = 0.2) PARM Code 34247 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Carbofuran (GWS = 40) PARM Code 81405 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC
Chlordane (tech mix. and metabolites)(GWS = 2) PARM Code 39350 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement						Report (Max.) Annually	ug/L 24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon (GWS = 200) PARM Code 38432 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Bis(2-ethylhexyl)adipate (GWS = 400) PARM Code 77903 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Bis (2-ethylhexyl) phthalate (GWS = 6) PARM Code 39100 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Dibromochloropropane (DBCP) (GWS = 0.2) PARM Code 82625 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
Dinoseb (GWS = 7) PARM Code 30191 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Diquat (GWS = 20) PARM Code 04443 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Endothall (GWS = 100) PARM Code 38926 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Endrin (GWS = 2) PARM Code 39390 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Ethylene dibromide (1,2- dibromoethane)(GWS = 0.02) PARM Code 77651 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	Grab	
Glyphosate (GWS = 0.7) PARM Code 79743 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC	

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Heptachlor (GWS = 0.4) PARM Code 39410 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor epoxide (GWS = 0.2) PARM Code 39420 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorobenzene (GWS = 1) PARM Code 39700 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorocyclopentadiene (GWS = 50) PARM Code 34386 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Gamma BHC (Lindane) (GWS = 0.2) PARM Code 39782 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Methoxychlor (GWS = 40) PARM Code 39480 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Oxamyl (vydate) (GWS = 200) PARM Code 38865 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Pentachlorophenol (GWS = 1) PARM Code 39032 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Picloram (GWS = 500) PARM Code 39720 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC
Polychlorinated Biphenyls (PCBs)(GWS = 0.5) PARM Code 39516 P Mon. Site No. RWS-A	Sample Measurement Permit Requirement							
				Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine (GWS = 4) PARM Code 39055 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Toxaphene (GWS = 3) PARM Code 39400 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Trihalomethane, Total by summation(GWS = 0.080) PARM Code 82080 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	mg/L		Annually	Grab	
Radium 226 + Radium 228, Total (GWS = 5) PARM Code 11503 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	pCi/L		Annually	24-hr FPC	
Alpha, Gross Particle Activity (GWS = 15) PARM Code 80045 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	pCi/L		Annually	24-hr FPC	
Aluminum, Total Recoverable (GWS = 0.2) PARM Code 01104 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC	
Chloride (as Cl) (GWS = 250) PARM Code 00940 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC	
Iron, Total Recoverable (GWS = 0.3) PARM Code 00980 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC	
Copper, Total Recoverable (GWS = 1,000) PARM Code 01119 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Manganese, Total Recoverable (GWS = 50) PARM Code 11123 P Mon. Site No. RWS-A	Sample Measurement										
	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Manatee County Southeast Regional WRF

MONITORING GROUP RWS-A

PERMIT NUMBER: FLA012618-021-DW1P/NRL

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01079 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
Sulfate, Total (GWS = 250)	Sample Measurement										
PARM Code 00945 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC	
Zinc, Total Recoverable (GWS = 5,000)	Sample Measurement										
PARM Code 01094 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC	
pH (GWS = 6.5-8.5)	Sample Measurement										
PARM Code 00400 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	s.u.		Annually	Grab	
Solids, Total Dissolved (TDS) (GWS = 500)	Sample Measurement										
PARM Code 70295 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC	
Foaming Agents (GWS = 0.5)	Sample Measurement										
PARM Code 01288 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC	

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FLA012618-021-DW1P/NRL
From: _____ To: _____

Facility: Manatee County Southeast Regional WRF
R-001

	Flow MGD	BOD, Carbonaceous 5 day, 20C mg/L	Solids, Total Suspended mg/L	pH (Min.) s.u.	pH (Max.) s.u.	Coliform, Fecal #/100mL	Chlorine, Total Residual (For Disinfection) mg/L	Turbidity NTU	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L
Code	50050	80082	00530	00400	00400	74055	50060	00070	00600	00665
Mon. Site	FLW-02	EFA-01	EFB-01	EFA-01	EFA-01	EFA-01	EFA-01	EFB-01	EFA-01	EFA-01
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
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20										
21										
22										
23										
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

Permit Number:
Monitoring Period

FLA012618-021-DWIP/NRL

From: _____ To: _____

Facility:

Manatee County Southeast Regional WRF
R-002

	Flow MGD	BOD, Carbonaceous 5 day, 20C mg/L	Solids, Total Suspended mg/L	pH Min. s.u.	pH Max. s.u.	Coliform, Fecal #/100mL	Chlorine, Total Residual (For Disinfection) mg/L	Nitrogen, Nitrate, Total (as N) mg/L
Code	50050	80082	00530	00400	00400	74055	50060	00620
Mon. Site	FLW-05	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01
1								
2								
3								
4								
5								
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22								
23								
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

Permit Number:
Monitoring Period

FLA012618-021-DW1P/NRL
From: _____ To: _____

Facility: Manatee County Southeast Regional WRF
Influent

Code	Flow MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L				
Mon. Site	50050 FLW-01	80082 INF-01	00530 INF-01				
1							
2							
3							
4							
5							
6							
7							
8							
9							
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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: _____

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

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

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

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

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

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

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

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

PART A -DISCHARGE MONITORING REPORT (DMR)

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

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

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

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

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

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

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

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

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

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

PART B - DAILY SAMPLE RESULTS

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

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

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

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

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

PART D - GROUND WATER MONITORING REPORT

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

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

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

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

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

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

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

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

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

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

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

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

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

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

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

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

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

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

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

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

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

Hughes, Rhonda

From: Hughes, Rhonda on behalf of SWD_WF_Permitting (Shared Mailbox)
Sent: Wednesday, September 02, 2015 11:00 AM
To: 'Mike Gore'
Cc: Andre Rachmaninoff (andre.rachmaninoff@mymanatee.org); Kaur, Ramandeep; McGucken, Vicki; Gracik, Elaine; Rotella, Amanda; Curll, Ryan; Champion, Jacquelyn
Subject: Manatee County Southeast Regional WRF
Attachments: Cover Letter - FLA012618-022.pdf; Permit - FLA012618-022.pdf; DMR - FLA012618-022.docx

Tracking:	Recipient	Delivery	Read
	'Mike Gore'		
	Andre Rachmaninoff (andre.rachmaninoff@mymanatee.org)		
	Kaur, Ramandeep	Delivered: 9/2/2015 11:01 AM	
	McGucken, Vicki	Delivered: 9/2/2015 11:00 AM	Read: 9/2/2015 11:01 AM
	Gracik, Elaine	Delivered: 9/2/2015 11:00 AM	
	Rotella, Amanda	Delivered: 9/2/2015 11:00 AM	
	Curll, Ryan	Delivered: 9/2/2015 11:00 AM	
	Champion, Jacquelyn	Delivered: 9/2/2015 11:00 AM	
	SWD_Clerical (Shared Mailbox)		

Good morning Mr. Gore,

Attached please find the above-subject permit documents. In an effort to reduce costs and waste, our agency is moving to electronic, rather than paper, correspondence. This is the only copy that you will receive, unless you request otherwise.

Acrobat Reader 6.0 or greater is required to read the documents and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

If you have any questions concerning the contents of the attached documents, please contact the FDEP Engineering Specialist Mr. Ryan Curll at 813-470-5947 or Ryan.Curll@dep.state.fl.us

Sincerely,

Rhonda Hughes
Secretary Specialist
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637
Phone: (813) 813-470-5718
Fax: (813) 470-5993
Rhonda.Hughes@dep.state.fl.us



Hughes, Rhonda

From: ONeal, Charley on behalf of SWD_Clerical (Shared Mailbox)
Sent: Wednesday, September 02, 2015 7:01 AM
To: Hughes, Rhonda
Subject: FW: WF - Manatee County Southeast Regional WRF (FLA012618-022-DWF/MM)

Please process

From: Curll, Ryan
Sent: Tuesday, September 01, 2015 1:08 PM
To: SWD_Clerical (Shared Mailbox) <SWD_Clerical@dep.state.fl.us>
Subject: WF - Manatee County Southeast Regional WRF (FLA012618-022-DWF/MM)

Good Afternoon!
The following is ready for issuance:

\\fldep1\SWD\all_common\Sites\Manatee\DW\Manatee County Southeast Regional - FLA012618\Permit\022 MM

Notes to Administrative Staff: Other (See Comments)

Comments: Department-Initiated Permit Revision

Send to SWD_Clerical for permit issuance.

For IW and DW individual permit, please indicate whether the permit is Non-NPDES

County: Manatee

DW Permits

Catalog: Wastewater
Profile: Permitting Authorization
Document: **Permit Final**
Permit Type: **DW Facility**
Facility Type: **Domestic Wastewater**
Application Number: FLA012618022
Document Subject: 022 DWFMM Department-Initiated Permit Revision

Thanks!
Ryan Curll
Engineering Specialist II
Permitting & Waste Cleanup Program, Southwest District
Florida Department of Environmental Protection
Ryan.Curll@dep.state.fl.us
(813)470-5947



Appendix B

INFLUENT FLOW METER CALIBRATION REPORT

On site Verification Certificate

Trinova
 4485 Laughlin Dr
 Mobile, AL 36693
 (251) 378-7837



Verification #

7419475 12:00:46 PM 3/2/2020

Verification Date

3/2/2020

Customer information

Company Name

MANATEE COUNTY SEWRF

Address

3025 LENA ROAD

City / State / Zip

BRADENTON FLORIDA, 34211

Instrument information (UUT)

Tag

MAIN HEADWORKS FLW-01

Manufacturer

FLEXIM

Model Number

FLEXIS 704

Serial Number

7419475

Calibration Method
 Description

SOP FOR CLAMP ON VERIFICATION

Display Range of UUT

0 to 20 MGD

Calibrated range

0 to 10 MGD

% of Reading (MPE)

5. % Of Batch

Standards used

This verification certificate documents the traceability to national standards, which states the units of measurement according to the International System of Units (SI)

Manufacturer	Model	Description	Serial n°	Due Date
ENDRESS HAUSER	93T	CLAMP ON ULTRA SONIC	N7098916000	8/8/2020

Percent of Span
 Percent of Set Point
 Of Reading
 +/- MPE
 Output of UUT
 Display of UUT

Calibration value(s)

- As Found
 As Left

Notes

PIPE CIRC. 100.5 SV 4890 SIG 72.2

	Reference Total	UUT Display	Total Deviation from Reference	% Of Reading Error	Pass/Fail
1	3.63	3.54	-0.09	-2.48	Pass
2	4.03	4.09	0.06	1.49	Pass
3	4.48	4.57	0.09	2.01	Pass
4	7.69	7.65	-0.04	-0.52	Pass
5	9.58	9.51	-0.07	-0.73	Pass
6					
7					
8					
9					
	MGD	MGD	MGD		

Technician

SAM MEDIGOVICH

Date of Service

3/2/2020

Printed On

3/2/2020

Flowmeter Verification Certificate Transmitter

Customer

Plant

Order code

PROSONIC FLOW 93 OTHERS

Tag Name

1 - 1

Device type

P2063516000

K-Factor

0

Serial number

V2.03.01

Zero point

V1.06.00

Software Version Transmitter

03/02/2020

Software Version I/O-Module

01:35 PM

Verification date

Verification time

Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier channel 1	Passed	Basis: 0.82 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Passed	1 P
Test Sensor	Not tested	

FieldCheck Details

198073

Production number

1.07.10

Software Version

01/2020

Last Calibration Date

Simubox Details

8689839

Production number

10000.00

Software Version

01/2020

Last Calibration Date

Date

Operator's Sign

Inspector's Sign

FieldCheck - Result Tab Transmitter

Customer		Plant	
Order code		Tag Name	-----
Device type	PROSONIC FLOW 93 OTHERS	K-Factor	1 - 1
Serial number	P2063516000	Zero point	0
Software Version Transmitter	V2.03.01	Software Version I/O-Module	V1.06.00
Verification date	03/02/2020	Verification time	01:35 PM

Verification Flow end value (100 %): 5067.183 gal/m

Flow speed 4.00 m/s

Application: Water

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	Test Transmitter			
✓	Amplifier channel 1	253.359 gal/m (5%)	3.20 %	0.28 %
✓		506.718 gal/m (10.0%)	1.95 %	0.01 %
✓		2533.591 gal/m (50.0%)	0.95 %	-0.25 %
✓		5067.183 gal/m (100%)	0.82 %	-0.53 %
✓	Current Output 1	4.000 mA (0%)	0.05 mA	0.001 mA
✓		4.800 mA (5%)	0.05 mA	0.001 mA
✓		5.600 mA (10.0%)	0.05 mA	0.003 mA
✓		12.000 mA (50.0%)	0.05 mA	0.003 mA
✓		20.000 mA (100%)	0.05 mA	0.005 mA
✓	Pulse Output 1	125 P	1 P	0 P
	Test Sensor	Desired value	Measured value	Limits range
—	Delta T (ns)			
—	Period (us)			
—	Signal strength			
—	Sound speed (m/s)			

Legend of symbols

✓	✗	—	?	!
Passed	Failed	not tested	not testable	Attention

FieldCheck: Parameters Transmitter

Customer	
Order code	
Device type	PROSONIC FLOW 93 OTHERS
Serial number	P2063516000
Software Version Transmitter	V2.03.01
Verification date	03/02/2020

Plant	
Tag Name	-----
K-Factor	1 - 1
Zero point	0
Software Version I/O-Module	V1.06.00
Verification time	01:35 PM

Curent Output	Assign	Current Range	Value 0_4mA	Value 20 mA		
Terminal 26/27	VOLUME FLOW CH1	4-20 mA activ				
Pulse Output	Assign	Pulse Value	Output signal	Pulse width		
Terminal 24/25	VOLUME FLOW CH1	2.000 gal/P	Passive/Positive	100.00 ms		

Actual System Ident.

125.0

Flowmeter Verification Certificate Transmitter

Customer

Plant

Order code

PROSONIC FLOW 93 OTHERS

Tag Name

1 - 1

Device type

P2087816000

K-Factor

0

Serial number

V2.03.01

Zero point

V1.06.00

Software Version Transmitter

03/02/2020

Software Version I/O-Module

01:19 PM

Verification date

Verification time

Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier channel 1	Passed	Basis: 0.82 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Passed	1 P
Test Sensor	Not tested	

FieldCheck Details

198073

Production number

1.07.10

Software Version

01/2020

Last Calibration Date

Simubox Details

8689839

Production number

10000.00

Software Version

01/2020

Last Calibration Date

Date

Operator's Sign

Inspector's Sign

FieldCheck - Result Tab Transmitter

Customer		Plant	
Order code		Tag Name	-----
Device type	PROSONIC FLOW 93 OTHERS	K-Factor	1 - 1
Serial number	P2087816000	Zero point	0
Software Version Transmitter	V2.03.01	Software Version I/O-Module	V1.06.00
Verification date	03/02/2020	Verification time	01:19 PM

Verification Flow end value (100 %): 5067.183 gal/m

Flow speed 4.00 m/s

Application: Water

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	Test Transmitter			
✓	Amplifier channel 1	253.359 gal/m (5%)	3.20 %	0.28 %
✓		506.718 gal/m (10.0%)	1.95 %	0.01 %
✓		2533.591 gal/m (50.0%)	0.95 %	-0.25 %
✓		5067.183 gal/m (100%)	0.82 %	-0.53 %
✓	Current Output 1	4.000 mA (0%)	0.05 mA	0.001 mA
✓		4.800 mA (5%)	0.05 mA	0.001 mA
✓		5.600 mA (10.0%)	0.05 mA	0.003 mA
✓		12.000 mA (50.0%)	0.05 mA	0.003 mA
✓		20.000 mA (100%)	0.05 mA	0.005 mA
✓	Pulse Output 1	125 P	1 P	0 P
	Test Sensor	Desired value	Measured value	Limits range
—	Delta T (ns)			
—	Period (us)			
—	Signal strength			
—	Sound speed (m/s)			

Legend of symbols

✓	✗	—	?	!
Passed	Failed	not tested	not testable	Attention

FieldCheck: Parameters Transmitter

Customer	
Order code	
Device type	PROSONIC FLOW 93 OTHERS
Serial number	P2087816000
Software Version Transmitter	V2.03.01
Verification date	03/02/2020

Plant	
Tag Name	-----
K-Factor	1 - 1
Zero point	0
Software Version I/O-Module	V1.06.00
Verification time	01:19 PM

Curent Output	Assign	Current Range	Value 0_4mA	Value 20 mA		
Terminal 26/27	VOLUME FLOW CH1	4-20 mA activ				
Pulse Output	Assign	Pulse Value	Output signal	Pulse width		
Terminal 24/25	VOLUME FLOW CH1	2.000 gal/P	Passive/Positive	100.00 ms		

Actual System Ident.

125.0