

January 30, 2024

Moira Homann
Florida DEP; Division of Environmental Assessment and Restoration
Water Quality Restoration Program
2600 Blair Stone Road MS3555
Tallahassee, FL 32399-2400

Re: Draft Clean Waterways Act Wastewater Treatment Plan and OSTDS Remediation Plan

Dear Ms. Homann,

Attached are the draft submittal requirements for Seminole County for compliance with the Clean Waterways Act (SB712). Seminole County is a local government which owns and operates two (2) Wastewater Treatment Facilities within its jurisdiction and within a nutrient BMAP. There are also onsite sewage treatment and disposal systems (OSTDS) within unincorporated Seminole County and within a nutrient BMAP.

Seminole County owns and operates the Yankee Lake and Greenwood Lakes Wastewater Treatment Facilities. The Greenwood Lakes WWTF serves the North East Service Area, and the Yankee Lake WWTF serves the Northwest Service Area.

The Greenwood Lakes and Yankee Lakes facilities each have biological nutrient removal (BNR) as part of secondary treatment, along with high-level disinfection, to produce effluent meeting Public Access Reuse standards. A majority of Seminole County's effluent from the WWTFs is distributed to customers for irrigation use through a common reclaimed water distribution system that is interconnected between the two areas. Below is the permitted capacity, permitted effluent limits and estimated annual TN and TP loads for each of the facilities. More detailed information can be found in the attached capacity reports and permits.

1. Greenwood Lakes WRF

Permitted capacity of 3.0 MGD AADF, operating under FDEP Permit No. FLA011086, which was issued on August 9, 2023, and expires on November 3, 2033. It is located at 701 Green Way Boulevard (permit attached).

a. Effluent Limits:

Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis
Total Nitrogen	mg/L	Max	3.0	Annual Average	Weekly
		Max	Report	Monthly Average	

Total Phosphorus (as P)	mg/L	Max	Report	Monthly Average	Weekly
		Max	Report	Annual Average	

b. Annual TN & TP Loads

Total Nitrogen				
Year	Concentration	Eff Flow (Annl Avg)	Loading*	
	(mg/L)	MGD	lb/day	lb/year
2019	1.68	2.159	30.25	11,041
2020	1.38	2.214	25.48	9,326
2021	1.35	2.068	23.28	8,499
2022	1.2	2.299	23.01	8,398
2023	1.42	2.217	26.26	9,583

Total Phosphorus				
Year	Concentration	Eff Flow (Annl Avg)	Loading*	
	(mg/L)	MGD	lb/day	lb/year
2019	0.315	2.159	5.67	2,070
2020	0.198	2.214	3.66	1,338
2021	0.27	2.068	4.66	1,700
2022	0.537	2.299	10.30	3,758
2023	0.361	2.217	6.67	2,436

* Calculated

2. Yankee Lake WRF

The Yankee Lake WRF is rated at 3.5 MGD AADF capacity under FDEP Permit No. FLA042625, which was issued on October 27, 2014, and expires on October 26, 2024. It is located at 501 Yankee Lake Rd. (SR 46), Sanford, FL, 32771 (Permit Attached).

a. Effluent Limits:

Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis
Total Nitrogen	mg/L	Max	Report	Single Sample	Weekly
Total Nitrogen	mg/L	Max	3.0	Annual Average	Weekly
		Max	Report	Monthly Average	

Total Phosphorus (as P)	mg/L	Max	Report	Monthly Average	Weekly
		Max	Report	Annual Average	

b. Annual TN & TP Loads

Total Nitrogen				
Year	Concentration	Eff Flow (Annl Avg)	Loading*	
	(mg/L)	MGD	lb/day	lb/year
2019	1.02	2.531	21.53	7,859
2020	1.6	2.499	33.35	12,205
2021	0.99	2.638	21.78	7,950
2022	1.31	2.624	28.67	10,464
2023	1.07	2.658	23.72	8,658

Total Phosphorus				
Year	Concentration	Eff Flow (Annl Avg)	Loading*	
	(mg/L)	MGD	lb/day	lb/year
2019	1.2	2.531	25.33	9,246
2020	0.55	2.499	11.46	4,195
2021	0.99	2.638	21.78	7,950
2022	0.68	2.624	14.88	5,432
2023	0.47	2.658	10.42	3,803

* Calculated

Seminole County's submittal also includes the following documents which address the information required to be submitted to the Department for a Wastewater Treatment Plan for the two (2) wastewater facilities and an Onsite Sewage Treatment and Disposal System (OSTDS) Remediation Plan.

- Greenwood Lakes WRF Permit No FLA011086
- Yankee Lake WRF Permit No FLA042625
- Greenwood Lakes Water Reclamation Facility Updated Capacity Analysis Report – May 2023
- Yankee Lake Water Reclamation Facility Updated Capacity Analysis Report – January 2024
- Lake Jesup and Middle St Johns River Septic Tank Remediation Plan and Wastewater Treatment Feasibility Analysis Final - December 2021
- Wekiva Priority Focus Area Septic Tank Remediation Plan and Wastewater Treatment Feasibility Analysis Final - October 2020

Sincerely,

Kim Ornberg

Kim Ornberg
Director, Environmental Services

SW/ko

cc Kristian Swenson, Assistant County Manager
Johnny Edwards, Interim Director, Utilities Department
Shannon Wetzels, Division Manager, Watershed Management