Effluent Quality Assessment of Sanford/North WRF Seminole County NPDES # FL0020141 Sampled December 11, 2023

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
April 2024

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Contents

Summary of Results....3
Facility Overview....3
Methods....3
Results....6
Literature Cited....8
Appendix A. Facility Summary....14
Appendix B. Explanations of Measurements....22
Appendix C. Chain of Custody....24
Appendix D. Chemical Analysis of Effluent....27

List of Tables

Table 1. Measured Field Parameters.... 9
Table 2. Analytical Water Chemistry Data.... 10
Table 3. Analytical Metals Data.... 11
Table 4. Algal Growth Potential (AGP).... 12
Table 5. Detected Organic Constituents.... 13

List of Figures

Figure 1. Map of Facility and Abbreviated Fifth Year Inspection Discharge Location.... 5

Summary of Results

The facility was not discharging at the time of sampling and samples were collected from monitoring site EFA-1, at the end of the chlorine contact chamber. Permit compliance cannot be determined. Total ammonia nitrogen detected in the effluent grab sample exceeded the Class III Water Quality Criterion for Fresh Waters however, was below the interim effluent permit limit for EFD-1. Algal growth potential (AGP) and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. There were 15 organic constituents detected in the effluent grab sample.

Facility Overview

The Sanford/North Wastewater Reclamation Facility is a domestic wastewater treatment plant. A Facility Summary, including a description of the facility, summary of permit limits, and any relevant Administrative Order (AO), Consent Order (CO), and Discharge Monitoring Report (DMR) information is provided in Appendix A. At the time of sampling, this facility was operating under Consent Order OGC #22-0456, executed on September 21, 2022, and Administrative Order CD-20-WW-141, requiring EFD-1 be sampled for cyanide, total phosphorus, total phenols, chlorodibromomethane, and dichlorobromomethane for each discharge and establishing an interim limit for total ammonia nitrogen. The effluent is intermittently discharged into the St. Johns River, a Class III Fresh Water [waterbody identification (WBID) 2893C] (Figure 1).

The St. Johns River falls within the Site Specific Interpretations of the Narrative Nutrient Criterion (NNC). For this segment of the St. Johns River above Wekiva River, the NNC, expressed as annual load, is 144 tons/year total phosphorus and 1,906 tons/year total nitrogen (Paragraph 62-304.505(13), F.A.C.). The St. Johns River falls within the Peninsula bioregion; the daily average dissolved oxygen (DO) saturation shall not be below 38 percent in more than 10 percent of the values (Paragraph 62-302.533(1)(a), F.A.C.). This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent grab samples were collected from the end of the chlorine contact chamber (monitoring site EFA-1) on December 11, 2023. Most permit limits apply to monitoring site EFD-1 (effluent after dechlorination) when the facility is discharging; the facility was not discharging at the time of sampling and permit compliance cannot be determined. There are permit limits for fecal coliform, *Escherichia coli* (*E. coli*), chlorodibromomethane, and dichlorobromomethane but these analyses were not scheduled. The permit specifies CBOD analysis but BOD analysis was performed. Toxicity samples were not collected because the facility was not discharging.

Samples were collected by Phil Kane and Ismael Reyes (Central District). Analyses were performed by Eurofins Environmental Testing Orlando, Eurofins Savannah, Eurofins Pensacola, and DEP Laboratory in Tallahassee.

All field and laboratory methods followed DEP Standard Operating Procedures (see https://floridadep.gov/dear/quality-assurance/content/dep-sops and https://floridadep.gov/dear/florida-dep-laboratory/content/dep-laboratory-quality-assurance-manual-and-sops for details) and met DEP quality assurance/quality control standards (see https://floridadep.gov/dear/quality-assurance). Explanations of specific methods and measurements can be found in Appendix B.

Class III Water Quality Criteria for Fresh and Marine Waters are found in Chapter 62-302, F.A.C. All references to Rule 62-302.530, F.A.C. are to the surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

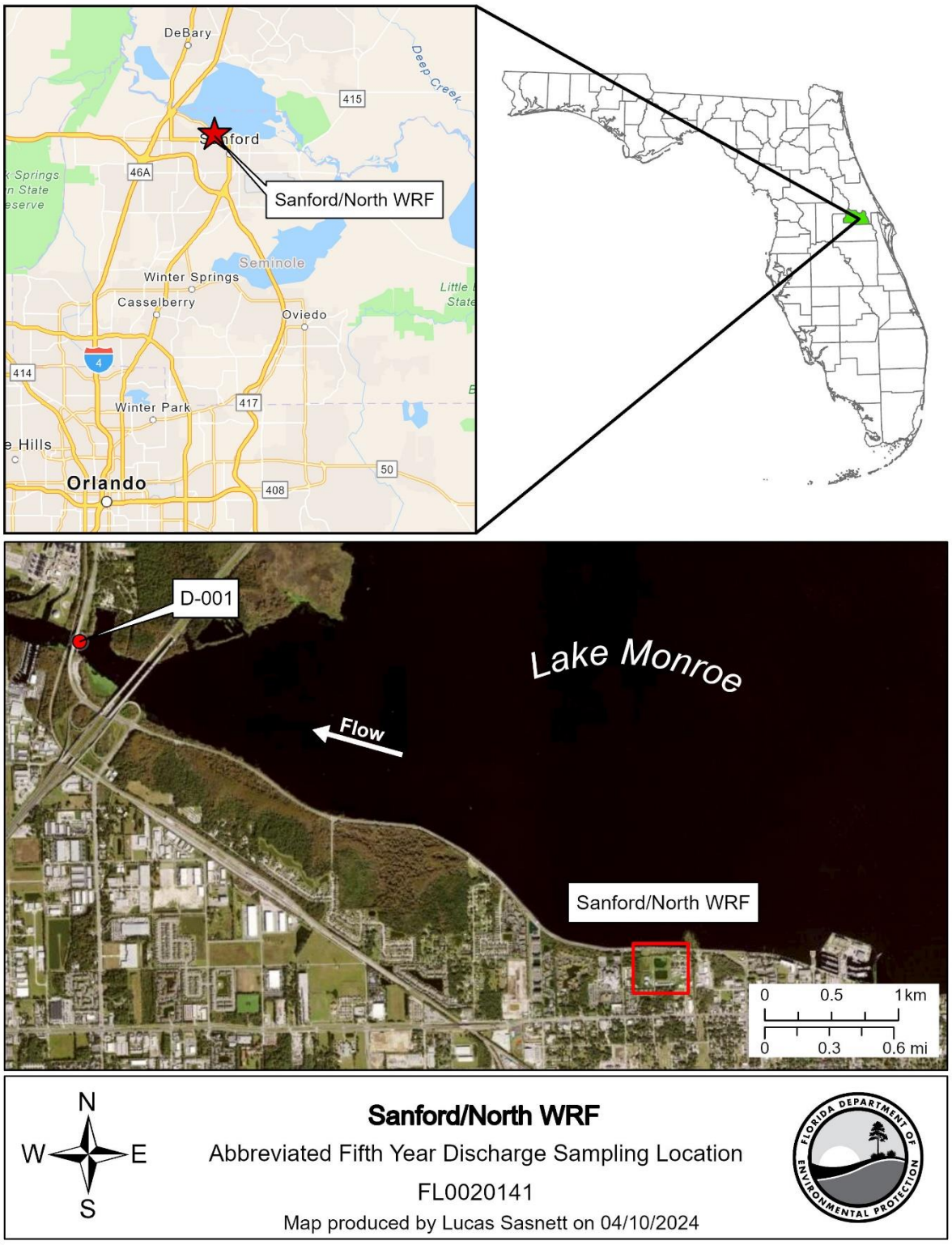


Figure 1. Map of Facility and Abbreviated Fifth Year Inspection Discharge Location

Results

Physical and Chemical Parameters (See Table 1 and Appendices C & D)

- Dissolved oxygen at EFA-1 was below the minimum required at EFD-1 when the facility is discharging.

Analytical Water Chemistry (See Table 2 and Appendix D)

- Total ammonia nitrogen detected in the effluent grab sample at EFA-1 exceeded the single sample Class III Water Quality Criterion for Fresh Waters (Subsection 62-302.530(3), F.A.C.) however, was below the interim effluent permit limit for EFD-1 in effect through December 31, 2023.

- Total Recoverable Phenolics were not detected in the effluent grab sample at EFA-1. The laboratory detection limit is higher than the effluent permit limit.

Metals (See Table 3 and Appendix D)

- All effluent metals at EFA-1 complied with Class III Water Quality Criteria for Fresh Waters. There are no effluent permit limits for metals.

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata*, was used to determine the AGP values in the effluent grab. The analytical chemistry suggests that the effluent is nitrogen-limited (Miller et al. 1978).

- AGP was detected in the effluent grab sample between laboratory method detection limit (MDL) and the laboratory practical quantitation limit (PQL). The result (0.561 mg dry wt/L) was in the AGP range (0.11–0.80 mg dry wt/L) suggested to be representative of moderate productivity for freshwater (Miller et al. 1978).

- Differences greater than an order of magnitude between actual and predicted AGP values are considered sufficient evidence to warrant follow up testing with the algal growth inhibition bioassay. True algal growth inhibition can only be determined by performing an actual algal growth inhibition test. Should algal growth inhibition be suspected, the district should request that the algal growth inhibition test be performed as a follow-up to the inspection.

Organic Constituents (See Table 5 and Appendix D)

- Atrazine (herbicide), Azoxystrobin (fungicide), Bromacil (herbicide), Fipronil (insecticide), Fipronil Desulfinyl (insecticide), Fipronil Sulfide (insecticide), Fipronil Sulfone (insecticide), Fludioxonil (fungicide), Fluxapyroxad (fungicide), Propiconazole (fungicide), Metribuzin (herbicide), Oxadiazon (herbicide), Sulfentrazone (herbicide), Tebuconazole (fungicide), and 2,4,6-Trichlorophenol (pesticide) were detected in the effluent grab sample.

- Of the organic constituents, five were herbicides, five were fungicides, and one was a pesticide which may account for measured AGP results being lower than predicted AGP values.

Literature Cited

Miller, W. E., Maloney, T. E. and Greene, J. C. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA600/978-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Stevenson, R. J. and Bahls, L. L. 1999. Periphyton protocols. Pp. 6.1-6.22 in: Rapid bioassessment protocols for use in wadeable streams and rivers. 2nd edition. By: M. T. Barbour, J. Gerritsen, B. D. Snyder and J. B. Stribling. EPA 841-B-99-002. U. S. Environmental Protection Agency, Office of Water, Washington, D. C.

USEPA. 2000. Nutrient Criteria Technical Guidance Manual – River and Streams. EPA-822-B-00-002.

Table 1. Measured Field Parameters

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent EFA-1
Temperature	C	-	-	25.3
pH	SU	6.0 - 8.5	6.0 - 8.5	7.0
Specific Conductance	µmhos/cm	≤ 1,275	-	749
Salinity	ppth	-	-	0.4 c
Dissolved Oxygen	mg/L	-	≥ 5.0	4.4
Total Residual Chlorine-disinfection	mg/L	-	≥ 0.5 (EFA-1)	4.3

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated

Table 2. Analytical Water Chemistry Data

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical water chemistry

Analyte	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent Grab EFA-1
Ortho-phosphate	mg P/L	-	-	0.70
Total Phosphorus	mg P/L	-	≤ 2.0 s	0.81
Total Ammonia Nitrogen	mg N/L	≤ 3.35 s	≤ 9.0 [1] s	3.9
Un-ionized Ammonia (calc salinity)	mg N/L	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	0.41
Total Kjeldahl Nitrogen	mg N/L	-	-	5.6
Organic Nitrogen	mg N/L	-	-	1.7 c
Total Nitrogen	mg N/L	-	≤ 12.0 s	6 c
Total Organic Carbon	mg C/L	-	-	12
Chlorophyll *a* - Corrected	µg/L	-	-	1.6 IJ
Phaeophytin	µg/L	-	-	0.98 UJ
CBOD, 5 day, N - inhibited	mg/L	-	≤ 20.0 s	-
BOD, 5 day, N - uninhibited	mg/L	-	-	6.1
Phenolics, Total Recoverable	µg /L	-	≤ 1.0	2.0 U
Total Suspended Solids	mg/L	-	≤ 20.0 s	2 U
Turbidity	NTU	≤ 29 t	-	0.95 I
Color (true)	PCU	-	-	28 A
Alkalinity	mg CaCO3/L	≥ 20	-	163 A
Chloride	mg Cl/L	-	-	110 A
Cyanide	µg/L	≤ 5.2	≤ 5.2 s	3.0 U
Fluoride	mg F/L	≤ 10.0	-	0.60
Sulfate	mg SO4/L	-	-	38 A

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
U - Material analyzed for but not detected; value reported is the method detection limit
1- Interim limit for total ammonia nitrogen through December 31, 2023

Table 3. Analytical Metals Data

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical metals data

Analyte	Units	Effluent Grab Class III Criteria	Effluent Permit Limits EFD-1	Effluent Grab EFA-1
Hardness	mg CaCO3/L	-	Report	179 c
Aluminum	µg/L	-	-	20 I
Arsenic	µg/L	≤ 50	-	0.99
Cadmium	µg/L	≤ 0.416 b	-	0.020 U
Calcium	mg/L	-	-	57.6
Chromium, Total [2]	µg/L	≤ 139 b	-	0.46 I
Copper	µg/L	≤ 15.3 b	-	0.97
Iron	µg/L	≤ 1,000	-	170
Lead	µg/L	≤ 6.66 b	-	0.20 U
Magnesium	mg/L	-	-	8.44
Nickel	µg/L	≤ 85.2 b	-	1.3 I
Selenium	µg/L	≤ 5.0	-	0.20 U
Silver	µg/L	≤ 0.07	Report	0.010 U
Sodium	mg/L	-	-	76.1
Zinc	µg/L	≤ 196 b	-	12 I

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
b - Value is calculated based on hardness
c - Value is calculated
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit
2 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III

Table 4. Algal Growth Potential (AGP)

Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN), ortho-phosphate (OP), total nitrogen (TN) and total phosphorus (TP) limitation and ratios of nitrogen to phosphorus

Location	Test Species	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Grab	*Pseudokirchneriella subcapitata*	0.561 I	160 ± 33	300 ± 60	230 ± 46	350 ± 70	6.2	7.4

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

Table 5. Detected Organic Constituents

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical organic and pesticide data

Analyte	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent EFA-1
Atrazine	ng/L	-	-	83
Azoxystrobin	ng/L	-	-	8.7 J
Bromacil	ng/L	-	-	4.5
Fipronil	ng/L	-	-	33
Fipronil Desulfinyl	ng/L	-	-	0.71
Fipronil Sulfide	ng/L	-	-	4.7 J
Fipronil Sulfone	ng/L	-	-	3.4
Fludioxonil	ng/L	-	-	2.1
Fluxapyroxad	ng/L	-	-	0.47 I
Metribuzin	ng/L	-	-	0.95 I
Oxadiazon	ng/L	-	-	0.57 I
Propiconazole	ng/L	-	-	4.2
Sulfentrazone	ng/L	-	-	4.9 I
Tebuconazole	ng/L	-	-	12
2,4,6-Trichlorophenol	µg/L	-	-	0.082 I

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Sean M. Boyles	**Contact Number:** (407) 897-4164
Facility Name (as it appears on permit): Sanford/North WRF	**Former Names:** N/A
NPDES Permit Number: FL0020141	**Permit Expiration Date:** October 5, 2025
Physical Address: 1201 West Seminole Boulevard, Sanford, Florida 32771	
District: Central	**County:** Seminole
Function of Facility: Domestic Wastewater Facility	
Facility Type: Domestic	**Permitted Capacity (MGD):** 7.3 AAMGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): D-001 Outfall Flow: 0.025 MGD Annual Average as reported on the September 2023 DMR	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): N/A	
Description of type of Discharge: ☐ **Continuous** **X Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify:**	
Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): EFA-1: Chlorine Contact Chamber EFD-1: Effluent after dechlorination FLW-1: Flow meter to St. Johns River discharge OTH-1: Ultrasonic gauging station for measuring river levels OTH-2: Weather station rain gauge	
Description of Permitted Outfall(s): D-001: An existing 1.0 MGD annual average daily flow discharge to the St. Johns River, Class III fresh waters, (WBID# 2893C) which is approximately 100 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 28°50' 14" N, longitude 81°19' 26" W.	
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): The facility is a 7.3 MGD annual average daily flow (AADF) permitted capacity plug flow activated sludge advanced domestic wastewater treatment plant. The treatment system includes flow equalization, influent screening, grit removal, aeration, an Integrated Fixed-Film Activated Sludge Process (IFAS) Biological Nutrient Removal (BNR) system with four treatment trains each consisting of primary anoxic aerobic, deoxygenation, secondary anoxic and reaeration basins. with secondary clarification, chemical feed, filtration, and chlorination, followed by dechlorination prior to surface water discharge (back-up disposal system).	

PART I: Continued

List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under
(Leave cell blank if not applicable)

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow (To river)	MGD	Max	1.0	Report			Continuous	Recoding Flow Meter with Totalizer	FLW-1	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max	10.0	12.5	15.0	20.0	Daily, when discharging	Grab	EFD-1	See I.A.6
Solids, Total Suspended	mg/L	Max	10.0	12.5	15.0	20.0	Daily, when discharging	Grab	EFD-1	See I.A.6
Coliform, Fecal	#/100mL	Max	200	200		800	Daily, when discharging	Grab	EFA-1	See I.A.7
E. coli	#/100mL	Max		126			Daily, when discharging	Grab	EFA-1	See I.A.7 and I.A.8
pH	s.u.	Min Max				6.0 8.5	Daily, when discharging	Grab	EFD-1	
Chlorine, Total Residual (For Disinfection)	mg/L	Min				0.5	Continuous	Meter	EFA-1	See I.A.3 and I.A.9
Chlorine, Total Residual (For Dechlorination)	mg/L	Max				0.01	Daily, when discharging	Grab	EFD-1	
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min				100	Annually, During any 12-month period with a discharge	4 grabs/24 hr.period	EFD-1	See I.A.10
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min				100	Annually, During any 12-month period with a discharge	4 grabs/24 hr.period	EFD-1	See I.A.10
Nitrogen, Total	mg/L	Max	6.0	7.5	9.0	12.0	Daily, when discharging	Grab	EFD-1	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	1.0	1.25	1.5	2.0	Daily, when discharging	Grab	EFD-1	
Phosphorus, Total (as P)	mg/L	Max	1.0	1.25	1.5	2.0	Daily, when discharging	Grab	EFD-1	
Nitrogen, Total	lb/yr	Max	19342				Monthly, when discharging	Calculated	EFD-1	

Nitrogen, Total	lb/mth	Max		Report			Monthly, when discharging	Calculated	EFD-1	
Phosphorus, Total (as P)	lb/yr	Max	2345				Monthly, when discharging	Calculated	EFD-1	
Phosphorus, Total (as P)	lb/mth	Max		Report			Monthly, when discharging	Calculated	EFD-1	
Stream Stage	ft	Min				1.2	Daily, when discharging	Meter	OTH-1	
Rainfall	in	Max				Report	Daily, when discharging	Meter	OTH-2	
Oxygen, Dissolved (DO)	mg/L	Min				5.0	Daily, when discharging	Meter	EFD-1	
Chlorodibromomenthane	ug/kg	Max	34.0				Monthly, when discharging	Grab	EFD-1	
Cyanide, Total (as CN)	µg/L	Max				5.2	Monthly, when discharging	Grab	EFD-1	
Dichlorobromomethane	ug/kg	Max	22.0				Monthly, when discharging	Grab	EFD-1	
Hardness, Total (as CaCO3)	mg/L	Max				Report	Monthly, when discharging	Grab	EFD-1	
Mercury, Total Recoverable	µg/L	Max				Report	Monthly, when discharging	Grab	EFD-1	
Phenolic Compounds, Total Recoverable	µg/L	Max				1.0	Monthly, when discharging	Grab	EFD-1	
Silver, Total Recoverable	µg/L	Max				Report	Monthly, when discharging	Grab	EFD-1	

PART I: Continued	
Receiving Waters: St. Johns River	**Classification (indicate whether fresh or marine):** Class III Fresh Water
Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.): See Attachment 1	

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.): Consent Order OGC #22-0456, executed on September 21, 2022:

- Beginning the effective date of this Order and until December 31, 2023, the Respondent shall collect samples at EFD-1 for the parameters included in Table 1 for each discharge from the Facility to the St. Johns River. These actions must be taken to comply with this Order and the current Administrative Order No.: CD-20-WW-141. The sampling schedule included in Permit FL0020141 remains in effect.

Parameter	Units	Max/Min	Limit	Statistical Basis	Minimum Frequency of Analysis	Sample Type	Monitoring Site Number
Cyanide	µg/L	Max	10.0	Single Sample	Monthly, when discharging	Grab	EFD-1
Total Phenols	µg/L	Max	7.5	Single Sample	Monthly, when discharging	Grab	EFD-1
Chlorodibromo methane	µg/L	Max	80	Annual Average	Monthly, when discharging	Grab	EFD-1
Dichlorobromo methane	µg/L	Max	100	Annual Average	Monthly, when discharging	Grab	EFD-1

- By March 1, 2023, the Respondent shall submit to the Department a report, outlining progress toward compliance with the current Administrative Order CD-20-WW-141.
- By December 31, 2023, the Respondent shall present data to determine if there is a reasonable potential for the contaminants to exceed the water quality standards and to determine compliance with the current Administrative Order CD-20-WW-141.
- The effluent discharged from the Facility to the St. Johns River shall also comply with the new interim limits (Interim Limits) for Ammonia, Total as N as shown in the table in paragraph 10(e) below. The discharge monitoring and the reporting requirements for these Interim limits shall comply with the requirements in paragraph 10(f) below. All other parameter limits in the Permit remain the same and Respondent shall comply with all other conditions of the Permit. The Interim Limits shall become effective upon the first day of the month following the effective date of this Consent Order and remain in effect until December 31, 2023.
- Interim Limits for Discharges to the St. Johns River; monitoring frequency remains daily; all samples remain grabs from EFD-1:

Effluent Limitations						
Parameter	Units	Max/Min	Single Sample	Weekly Average	Monthly Average	Annual Average
Ammonia, Total as N	mg/L	Maximum	9.0	6.0	6.0	6.0

- The analysis and reporting of the Interim Limits shall be in accordance with the Facility's Permit. The Interim Limits do not act as State of Florida Department of Environmental Protection Wastewater Permit effluent limitations of modified Permit limitations, nor do they authorize or justify violation of the Florida Air and Water Pollution Control Act, Part I, Chapter 403, Florida Statues, during the pendency of this Order. Analyses shall be reported once each month on a DMR. DMRs shall be submitted electronically via the EzDMR reporting system and must be received by the Department no later than the 28th day following the end of the reporting period (e.g., August report would be due no later than September 28th).

- By October 1, 2022, the Respondent shall complete repair of the grit chamber and its associated components.
- By June 30, 2023, the Respondent shall complete installation of new Internal Mixed Liquor Recycle (IMLR) pumps in all four IFAS trains.
- By June 30, 2023, the Respondent shall complete repair of the mixers in the primary anoxic basin of train B and the post anoxic basin of train A.
- By December 31, 2022, the Respondent shall complete replacement of the weir cleaning system components.
- By December 31, 2022, the Respondent shall complete repair of the mechanical bar screen.
- By December 31, 2022 the Respondent shall submit to the Department an Operations and Maintenance Manual for the collection system.
- By June 30, 2023, the Respondent shall have all three overdue tanks inspected by personnel under the responsible charge of a professional engineer licensed in Florida and submit a signed and sealed tank inspection report for each tank (South Ground Storage Tank at Main Plant, North Ground Storage Tank at Main Plant, and South Ground Storage Tank at Auxiliary Plant).
- By January 31, 2023, the Respondent shall provide records that isolation valves are being exercised to the Department.
- By January 31, 2023, the Respondent shall provide records of flushing of 6" and larger dead-end mains to the Department.
- By November 1, 2022, the Respondent shall submit documentation that corroded plant components at Well 9, Well 12, and ASR Well have been sanded and painted.
- By June 30, 2024, the facility shall provide reasonable assurance that repairs made under this Order have resolved the high Nitrogen, Ammonia Total (as N) sample results by providing at least six consecutive months of DMRs with no reported exceedances for Nitrogen, Ammonia Total (as N) single sample maximum, Nitrogen, Ammonia Total (as N) weekly average, Nitrogen, Ammonia Total (as N) monthly average and Nitrogen, Ammonia Total (as N) annual average at EFD-1.

Facility Mixing Zone Details (if applicable):
N/A

List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year:

Date	Parameter and Units	Limit	Result
October 2022 (R-001)	Total Suspended Solids (TSS), mg/L	5.0 Maximum (Max)	6.6
November 2022 (R-001)	Fecal Coliform (FC), #/100mL	25.0 Max	33.0
December 2022 (R-001)	TSS, mg/L	5.0 Max	7.0
February 2023 (R-001)	TSS, mg/L	5.0 Max	5.1
May 2023 (R-001)	TSS, mg/L	5.0 Max	5.6
June 2023 (R-001	TSS, mg/L	5.0 Max	28.6
July 2023 (R-001)	TSS, mg/L	5.0 Max	6.2
August 2023 (R-001)	FC, #/100mL	25.0 Max	28.0

Describe previous FYI and WQBEL study:
The last FYI3 was conducted on September 22, 2014.

Describe previous or current Enforcement Actions (including WLs): The facility has received numerous Warning Letters for Sanitary Sewer Overflows. Currently the District is looking to write another Consent Order that will handle a penalty for the spills and corrective actions related to the sanitary sewer system.

Describe any violations or problems noted in previous inspection:

- The analytical results for the June 3, 2019 sampling event reported a TSS concentration of 17.4, mg/L which exceeded the effluent limitation of 5 mg/L. Although a reject event was documented, on June 3, 2019, the results for the sampling event did not correspond with the elevated TSS results from the HACH Solitax inline TSS meter.
- There is a recording error in the TRC calibration log. Values for October 14, 2019 were recorded twice. The values were listed as October 15, 2019, which was the day following the inspection. Additionally, the last verification with primary standards on file was January 9, 2018.
- BNR system was not operating as intended at time of inspection. Excessive foam was observed in IFAS BNR treatment system at time of inspection. Fixed film media was found throughout the grounds of the wastewater treatment facility. There was a crack present in the side wall.
- Clarifiers 1, 2, and 3 were not operating as intended at time of inspection. Excessive foam was observed in all three clarifiers. Spray to manage foam in Clarifier #3 was spraying over the edge of the clarifier wall. Short circuiting was observed in all three stilling wells. Some vegetation and algae were observed.
- Duckweed present on deep bed filters.
- Flow calibrations for FLW-1 and FLW-4 were not on file.
- The grit chamber, one belt-press, the aerobic sludge digestor, air scrubber, and Actiflo system were non-operational at time of inspection.
- Gasket on blower at sludge dewatering facility was leaking.
- Exceedances were observed during the DMR review.
- Exceedances were observed during the Groundwater DMR review.

Discuss whether DMR trends within previous five years are improving or declining:
Flows to D-001 outfall have decreased.

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse): N/A

PART II: Sampling Event Information	
Date(s) sample collected: 12/11/2023	**Sampler(s):** KANE, REYES
Temperature (Deg C): 25.3	**pH (SU):** 7.04
Dissolved Oxygen (mg/L): 4.41	**Conductivity (umhos/cm):** 749
Total Residual Chlorine (mg/L): 4.33	**Total Residual Chlorine - after Disinfection (mg/L):** SAMES FROM CCC END
Method of Chlorination: CHLORINE	**Method of De-chlorination:** N/A
Flow During Sample Collection for each outfall(MGD): 5.65 MGD	
Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day): N/A	
Describe Discharge during Sampling Event: ☐ Continuous ☐ Intermittent ☐ Seasonal ☐ Rainfall Dependent ☒ Other, please specify: NOT DISCHARGING	
Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here:	

Page 8 of 8 v4.0 11/04/2015

Appendix B. Explanations of Measurements

Biological assessments are prepared by DEP staff to provide information for review of NPDES permit renewal applications. Biological assessments, in conjunction with other information concerning the subject facility and its receiving-water body, are used to determine appropriate permit conditions. References to Rule 62-302.530, F.A.C., are to the currently applicable surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

- **Chemical Analyses of the Effluent**

  The effluent was analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides following DEP SOPs. The results from these analyses were compared with Water Quality Criteria (Chapter 62-302, F.A.C.) and facility permit limits.

- **Algal Growth Potential (AGP)**

  The algal growth potential (AGP) value is the peak growth of the alga within that 14-day period, recorded as mg dry weight/L. AGP results within the range 6.10 to 20.0 mg dry wt/L are suggested to be representative of high productivity for freshwaters (Miller et al. 1978). High AGP values may constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a), F.A.C. and/or Paragraph 62-302.530(48)(b), F.A.C.

  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of ± 20%. When the ratio of nitrogen to phosphorus (N: P) is less than 10:1, nitrogen limitation of algal production is likely. When the N: P ratio is 20:1 or greater, phosphorus limitation is likely (USEPA 2000). For ratios in-between, co-limitation may occur. Production of lower biomass than expected may be evidence of growth inhibition related to toxic compounds present in the water sample tested and may constitute an exceedance of Subsection 62-302.530(62), F.A.C.

- **Chlorophyll *a* Content**

  Chlorophyll *a* content is an estimate of algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a) F.A.C. and/or Paragraph 62-302.530(48)(b) F.A.C.

- **Definition of Qualifiers** (Rule 62-160.700, F.A.C.)

  A - Value reported is the mean of two or more determinations
  B - Results based on colony counts outside the acceptable range.
  I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
  J - Estimated value
  K - Actual value is known to be less than value given

L - Actual value is known to be greater than value given
N - Presumptive evidence of presence of material.
O - Sampled, but analysis lost or not performed.
Q - Sample held beyond normal holding time.
T - Value reported is less than the criterion of detection.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
V - Analyte was detected in both sample and method blank.
X - Too few individuals to calculate SCI value.
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
Z - Colonies were too numerous to count (TNTC)

Appendix C. Chain of Custody

Request Number: RQ-2023-11-27-54

FYI3 Sanford North WWTF (FL0020141)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 4
last revised Jan 25, 2018

Customer: CEN-DIST
Project ID: FYI3

Requester: Benjamin Nomann
Collected By: KANE, REYES

Field Report Prepared By: KANE, REYES
Sampling Agency: FDEP CENTRAL

Location: SANFORD/NORTH WRF 1201 WEST SEMINOLE BLVD, SANFORD, FL 32771	☐ Comp ☑ Grab	Collection (~~comp begin~~ or grab) Date 12/11/2023 Time 809AM	Eastern Central	Composite end Date PK Time				Bottle Group(s) (See pg 2): A
Field ID: SANF	Matrix (type, e.g., Salt, Fresh, etc): EFFLUENT			Diss. Oxygen 4.41	☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L) 4.33		
WIN/STORET #	Temp (C) 25.3	pH 7.04		Sample Depth SURFACE	☐ ft ☐ m	Sp. Conductance (umho/cm) 749		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: ~~NO FLOW~~ NO DISCHARGE PK	SAMPLES FROM END OF CCC, SO CHLORINATED. 4.33 mg/L CLHORINE				PH CHECK
Location: SANFORD/NORTH WRF 1201 WEST SEMINOLE BLVD, SANFORD, FL 32771	☐ Comp ☑ Grab	Collection (~~comp begin~~ or grab) Date 12/11/2023 Time 850 AM	Eastern Central	Composite end Date PK Time				Bottle Group(s): B
Field ID: SANF	Matrix (type, e.g., Salt, Fresh, etc): EFFLUENT			Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH		Sample Depth SURFACE	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: pH <2 FOR ACIDS +>12 FOR BASES					PH CHECK
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time				Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH		Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments					
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time				Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH		Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments					

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
KANE	12/11/23	FEDEX	3	Chris P	12-12-23 / 8:40

Request Number: RQ-2023-11-27-54

FYI3 Sanford North WWTF (FL0020141)

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 4

last revised Jan 25, 2018

Customer: CEN-DIST

Project ID: FYI3

Requester: Benjamin Nomann

Collected By: KANE, REYES

Field Report Prepared By: KANE, REYES

Sampling Agency: FDEP CENTRAL

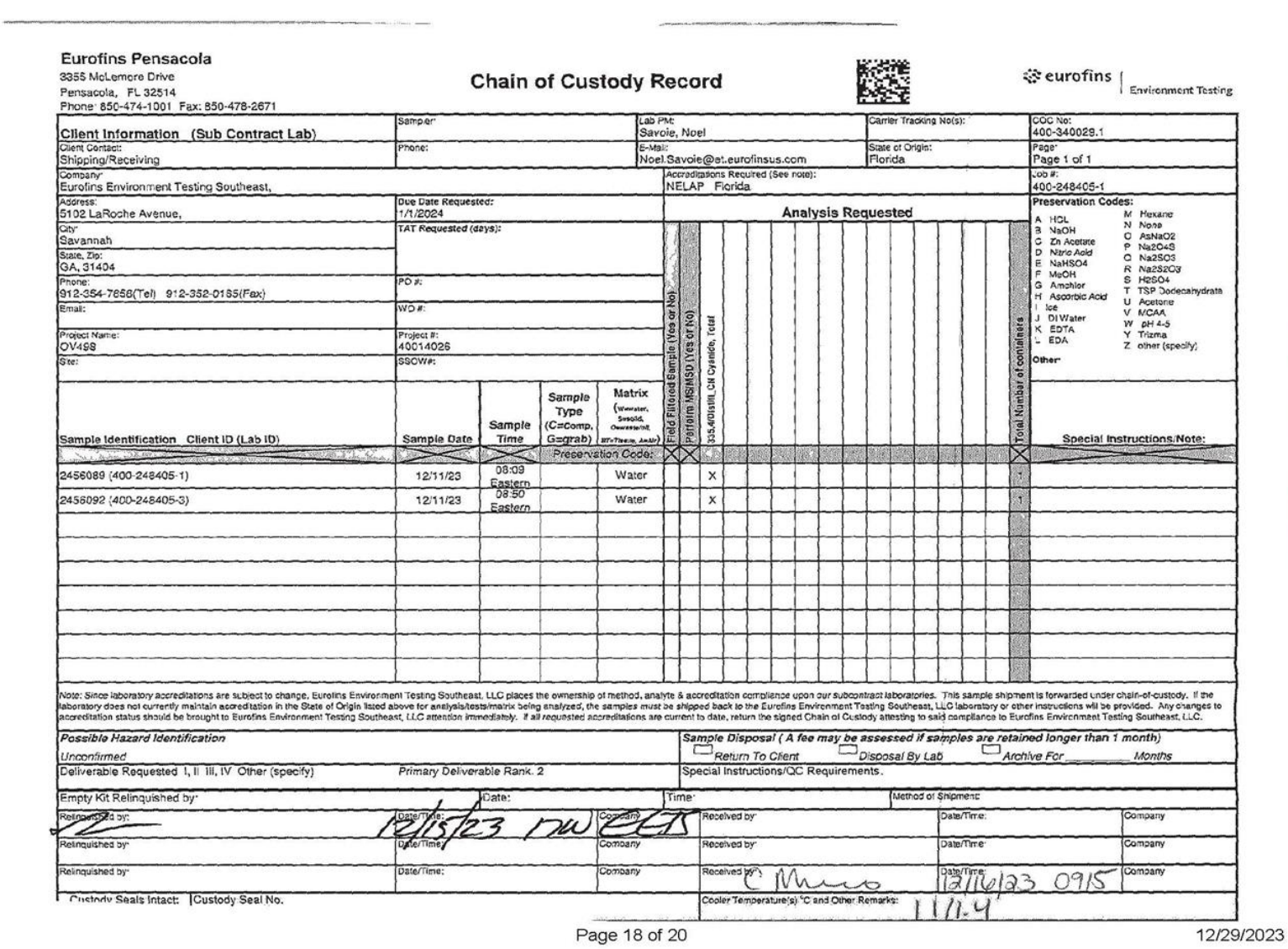
Location: SANFORD/NORTH WRF 1201 WEST, SEMINOLE BLVD, SANFORD, FL 32771	☐ Comp ☑ Grab	Collection (~~comp begin~~ or grab) Date 12/11/2023 Time 834 Am	(Eastern) Central	Composite end Date ~~Time~~	Bottle Group(s) (See pg 2): A
Field ID: SANF	Matrix (type, e.g., Salt, Fresh, etc): EFFLUENT	Diss. Oxygen: 4.41	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C): 25.3	pH: 7.00	Sample Depth: SURFACE ☐ ft ☐ m	Sp. Conductance (umho/cm): 749	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: SAMPLE CHLORINATED FROM CCC		
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		



Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
KANE	12/11/23	~~FEDEX~~ PK HAND		[illegible] 2.6	12/11 1023

Page 15 of 18

12/20/2023



Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-340029.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 400-248405-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 1/1/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: OV498	Project #: 40014026			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	335.4/Distill_CN Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
2456089 (400-248405-1)	12/11/23	08:09 Eastern		Water			X	1	
2456092 (400-248405-3)	12/11/23	08:50 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	*Return To Client* *Disposal By Lab* *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) *Primary Deliverable Rank: 2*	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 12/15/23 1700	Company ECS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/16/23 0915	Company
Custody Seals Intact: Custody Seal No.			Cooler Temperature(s) °C and Other Remarks: 1.1/1.4		

Appendix D. Chemical Analysis of Effluent

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
12/11/2023 8:09	Effluent Grab	AGP/LN	Algal Growth Potential	0.561 I	mg DryWt/L	0.300	0.900
12/11/2023 8:09	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	1.8 IJ	µg/L	0.65	2.0
12/11/2023 8:09	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.6 IJ	µg/L	0.89	2.7
12/11/2023 8:09	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.98 UJ	µg/L	0.98	2.9
12/11/2023 8:09	Effluent Grab	Overflow	Biochemical Oxygen Demand	6.1	mg/L	2.0	2.0
12/11/2023 8:09	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
12/11/2023 8:09	Effluent Grab	Metals	Magnesium	8.44	mg/L	0.040	0.16
12/11/2023 8:09	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
12/11/2023 8:09	Effluent Grab	Metals	Chromium	0.46 I	µg/L	0.40	1.6
12/11/2023 8:09	Effluent Grab	Metals	Aluminum	20 I	µg/L	5.0	20
12/11/2023 8:09	Effluent Grab	Metals	Nickel	1.3 I	µg/L	0.50	2.0
12/11/2023 8:09	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
12/11/2023 8:09	Effluent Grab	Metals	Arsenic	0.99	µg/L	0.050	0.20
12/11/2023 8:09	Effluent Grab	Metals	Sodium	76.1	mg/L	0.50	2.0
12/11/2023 8:09	Effluent Grab	Metals	Hardness	179	mg/L	0.35	1.4
12/11/2023 8:09	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
12/11/2023 8:09	Effluent Grab	Metals	Zinc	12 I	µg/L	5.0	20
12/11/2023 8:09	Effluent Grab	Metals	Calcium	57.6	mg/L	0.075	0.30
12/11/2023 8:09	Effluent Grab	Metals	Copper	0.97	µg/L	0.40	0.80
12/11/2023 8:09	Effluent Grab	Metals	Iron	170	µg/L	30	120
12/11/2023 8:09	Effluent Grab	Nutrients	Organic Carbon	12	mg C/L	0.50	1.0
12/11/2023 8:09	Effluent Grab	Nutrients	Turbidity	0.95 I	NTU	0.10	1.0
12/11/2023 8:09	Effluent Grab	Nutrients	Fluoride	0.60	mg F/L	0.025	0.10
12/11/2023 8:09	Effluent Grab	Nutrients	NO2NO3-N	0.41	mg N/L	0.0040	0.010
12/11/2023 8:09	Effluent Grab	Nutrients	Kjeldahl Nitrogen	5.6	mg N/L	0.40	1.0
12/11/2023 8:09	Effluent Grab	Nutrients	Sulfate	38 A	mg SO4/L	0.40	1.0
12/11/2023 8:09	Effluent Grab	Nutrients	Total-P	0.81	mg P/L	0.010	0.050
12/11/2023 8:09	Effluent Grab	Nutrients	Color (true)	28 A	PCU	2.5	6.0
12/11/2023 8:09	Effluent Grab	Nutrients	Total Alkalinity	163 A	mg CaCO3/L	0.65	2.5
12/11/2023 8:09	Effluent Grab	Nutrients	Ammonia-N	3.9	mg N/L	0.20	0.50
12/11/2023 8:09	Effluent Grab	Nutrients	TSS	2 U	mg/L	2.0	10
12/11/2023 8:09	Effluent Grab	Nutrients	Chloride	110 A	mg Cl/L	0.40	1.0

12/11/2023 8:09	Effluent Grab	Nutrients	O-Phosphate-P	0.70	mg P/L	0.016	0.040
12/11/2023 8:09	Effluent Grab	Overflow	Phenolics, Total Recoverable	0.0020 U	mg/L	0.0020	0.0050
12/11/2023 8:09	Effluent Grab	Overflow	Cyanide	0.0030 U	mg/L	0.0030	0.020
12/11/2023 8:09	Effluent Grab	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
12/11/2023 8:09	Effluent Grab	Pesticides	Mevinphos	1.0 UJ	ng/L	1.0	5.1
12/11/2023 8:09	Effluent Grab	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
12/11/2023 8:09	Effluent Grab	Pesticides	Parathion Ethyl	0.15 UJ	ng/L	0.15	0.77
12/11/2023 8:09	Effluent Grab	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
12/11/2023 8:09	Effluent Grab	Pesticides	Propiconazole	4.2	ng/L	0.62	3.1
12/11/2023 8:09	Effluent Grab	Pesticides	Dimethenamid	0.10 UJ	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Fenbuconazole	0.51 U	ng/L	0.51	2.6
12/11/2023 8:09	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.71	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Fludioxonil	2.1	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Carbophenothion	0.51 UJ	ng/L	0.51	2.6
12/11/2023 8:09	Effluent Grab	Pesticides	Diazinon	0.13 UJ	ng/L	0.13	0.64
12/11/2023 8:09	Effluent Grab	Pesticides	Metolachlor	0.77 U	ng/L	0.77	3.9
12/11/2023 8:09	Effluent Grab	Pesticides	Phorate	0.26 UJ	ng/L	0.26	1.3
12/11/2023 8:09	Effluent Grab	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.1
12/11/2023 8:09	Effluent Grab	Pesticides	EPTC	0.51 U	ng/L	0.51	2.6
12/11/2023 8:09	Effluent Grab	Pesticides	Ethoprop	0.13 UJ	ng/L	0.13	0.64
12/11/2023 8:09	Effluent Grab	Pesticides	Fipronil Sulfide	4.7 J	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Fonofos	0.15 UJ	ng/L	0.15	0.77
12/11/2023 8:09	Effluent Grab	Pesticides	Hexazinone	0.51 U	ng/L	0.51	2.6
12/11/2023 8:09	Effluent Grab	Pesticides	Acetochlor	0.21 UJ	ng/L	0.21	1.0
12/11/2023 8:09	Effluent Grab	Pesticides	Azinphos Methyl	3.1 UJ	ng/L	3.1	15
12/11/2023 8:09	Effluent Grab	Pesticides	Iprodione	0.51 U	ng/L	0.51	2.6
12/11/2023 8:09	Effluent Grab	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
12/11/2023 8:09	Effluent Grab	Pesticides	Disulfoton	0.62 UJ	ng/L	0.62	3.1
12/11/2023 8:09	Effluent Grab	Pesticides	Fenamiphos	0.46 UJ	ng/L	0.46	2.3
12/11/2023 8:09	Effluent Grab	Pesticides	Fipronil	33	ng/L	0.21	1.0
12/11/2023 8:09	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
12/11/2023 8:09	Effluent Grab	Pesticides	Prometon	3.1 U	ng/L	3.1	15
12/11/2023 8:09	Effluent Grab	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.6
12/11/2023 8:09	Effluent Grab	Pesticides	Terbufos	0.21 UJ	ng/L	0.21	1.0

12/11/2023 8:09	Effluent Grab	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
12/11/2023 8:09	Effluent Grab	Pesticides	Ethion	0.31 UJ	ng/L	0.31	1.5
12/11/2023 8:09	Effluent Grab	Pesticides	Fipronil Sulfone	3.4	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	15
12/11/2023 8:09	Effluent Grab	Pesticides	Azoxystrobin	8.7 J	ng/L	0.41	2.1
12/11/2023 8:09	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.31 UJ	ng/L	0.31	1.5
12/11/2023 8:09	Effluent Grab	Pesticides	Naled	2.6 UJ	ng/L	2.6	13
12/11/2023 8:09	Effluent Grab	Pesticides	Parathion Methyl	0.21 UJ	ng/L	0.21	1.0
12/11/2023 8:09	Effluent Grab	Pesticides	Pendimethalin	1.7 U	ng/L	1.7	8.7
12/11/2023 8:09	Effluent Grab	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
12/11/2023 8:09	Effluent Grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
12/11/2023 8:09	Effluent Grab	Pesticides	Atrazine	83	ng/L	0.21	1.0
12/11/2023 8:09	Effluent Grab	Pesticides	Bromacil	4.5	ng/L	0.62	3.1
12/11/2023 8:09	Effluent Grab	Pesticides	Butylate	0.46 U	ng/L	0.46	2.3
12/11/2023 8:09	Effluent Grab	Pesticides	Malathion	0.36 UJ	ng/L	0.36	1.8
12/11/2023 8:09	Effluent Grab	Pesticides	Metalaxyl	0.51 U	ng/L	0.51	2.6
12/11/2023 8:09	Effluent Grab	Pesticides	Metribuzin	0.95 I	ng/L	0.41	2.1
12/11/2023 8:09	Effluent Grab	Pesticides	Oxadiazon	0.57 I	ng/L	0.36	1.8
12/11/2023 8:09	Effluent Grab	Pesticides	Pronamide	0.10 UJ	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Fluxapyroxad	0.47 I	ng/L	0.26	1.3
12/11/2023 8:09	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.15 U	ng/L	0.15	0.77
12/11/2023 8:09	Effluent Grab	Pesticides	Demeton	3.6 UJ	ng/L	3.6	18
12/11/2023 8:09	Effluent Grab	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.3
12/11/2023 8:09	Effluent Grab	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.1
12/11/2023 8:09	Effluent Grab	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0
12/11/2023 8:09	Effluent Grab	Pesticides	Sucralose	59	µg/L	0.10	0.40
12/11/2023 8:09	Effluent Grab	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.1
12/11/2023 8:09	Effluent Grab	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.6
12/11/2023 8:09	Effluent Grab	Pesticides	Atrazine Desethyl	1.3 UJ	ng/L	1.3	6.7
12/11/2023 8:09	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.10 UJ	ng/L	0.10	0.51
12/11/2023 8:09	Effluent Grab	Pesticides	Cyanazine	5.1 U	ng/L	5.1	26
12/11/2023 8:09	Effluent Grab	Pesticides	Sulfentrazone	4.9 I	ng/L	1.4	7.2
12/11/2023 8:09	Effluent Grab	Pesticides	Tebuconazole	12	ng/L	1.4	7.2
12/11/2023 8:09	Effluent Grab	Pesticides	Difenoconazole	0.62 U	ng/L	0.62	3.1
12/11/2023 8:09	Effluent Grab	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.51

12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.82
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	8.2
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.41
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.082 I	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.1
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	41
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.41
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	41
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	41
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.51 U	µg/L	0.51	2.0
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Phenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.41
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 UJ	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.026 UJ	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10

12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.2
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Isophorone	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	µg/L	5.1	20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Anthracene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.2
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 UJ	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 UJ	µg/L	10	41
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:09	Effluent Grab	Nutrients	Dissolved Oxygen mg/L	4.41	mg/L		
12/11/2023 8:09	Effluent Grab	Nutrients	pH	7.04	SU		
12/11/2023 8:09	Effluent Grab	Nutrients	Specific Conductance	749	µmhos/cm		
12/11/2023 8:09	Effluent Grab	Nutrients	Temperature	25.3	C		
12/11/2023 8:50	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
12/11/2023 8:50	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
12/11/2023 8:50	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
12/11/2023 8:50	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
12/11/2023 8:50	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
12/11/2023 8:50	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
12/11/2023 8:50	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
12/11/2023 8:50	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
12/11/2023 8:50	Field Blank	Metals	Iron	30 U	µg/L	30	120
12/11/2023 8:50	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
12/11/2023 8:50	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
12/11/2023 8:50	Field Blank	Metals	Hardness	0.35 U	mg/L	0.35	1.4
12/11/2023 8:50	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
12/11/2023 8:50	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0

12/11/2023 8:50	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
12/11/2023 8:50	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
12/11/2023 8:50	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
12/11/2023 8:50	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
12/11/2023 8:50	Field Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
12/11/2023 8:50	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
12/11/2023 8:50	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
12/11/2023 8:50	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
12/11/2023 8:50	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
12/11/2023 8:50	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
12/11/2023 8:50	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
12/11/2023 8:50	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
12/11/2023 8:50	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
12/11/2023 8:50	Field Blank	Overflow	Cyanide	0.0030 U	mg/L	0.0030	0.020
12/11/2023 8:50	Field Blank	Overflow	Phenolics, Total Recoverable	0.0020 U	mg/L	0.0020	0.0050
12/11/2023 8:50	Field Blank	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
12/11/2023 8:50	Field Blank	Pesticides	Azoxystrobin	0.41 U	ng/L	0.41	2.0
12/11/2023 8:50	Field Blank	Pesticides	Bromacil	0.61 U	ng/L	0.61	3.1
12/11/2023 8:50	Field Blank	Pesticides	Prodiamine	0.20 U	ng/L	0.20	1.0
12/11/2023 8:50	Field Blank	Pesticides	Pronamide	0.10 UJ	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.6
12/11/2023 8:50	Field Blank	Pesticides	Terbufos	0.20 UJ	ng/L	0.20	1.0
12/11/2023 8:50	Field Blank	Pesticides	Difenoconazole	0.61 U	ng/L	0.61	3.1
12/11/2023 8:50	Field Blank	Pesticides	Metalaxyl	0.51 U	ng/L	0.51	2.6
12/11/2023 8:50	Field Blank	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.0
12/11/2023 8:50	Field Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.1
12/11/2023 8:50	Field Blank	Pesticides	Atrazine Desethyl	1.3 UJ	ng/L	1.3	6.6
12/11/2023 8:50	Field Blank	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8
12/11/2023 8:50	Field Blank	Pesticides	Parathion Methyl	0.20 U	ng/L	0.20	1.0
12/11/2023 8:50	Field Blank	Pesticides	Diazinon	0.13 UJ	ng/L	0.13	0.64
12/11/2023 8:50	Field Blank	Pesticides	Fipronil Sulfide	0.10 U	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Imazalil	0.66 U	ng/L	0.66	3.3
12/11/2023 8:50	Field Blank	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8
12/11/2023 8:50	Field Blank	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.0

12/11/2023 8:50	Field Blank	Pesticides	Carbophenothion	0.51 U	ng/L	0.51	2.6
12/11/2023 8:50	Field Blank	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
12/11/2023 8:50	Field Blank	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
12/11/2023 8:50	Field Blank	Pesticides	Sulfentrazone	1.4 U	ng/L	1.4	7.1
12/11/2023 8:50	Field Blank	Pesticides	Disulfoton	0.61 UJ	ng/L	0.61	3.1
12/11/2023 8:50	Field Blank	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.64
12/11/2023 8:50	Field Blank	Pesticides	Fenamiphos	0.46 U	ng/L	0.46	2.3
12/11/2023 8:50	Field Blank	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
12/11/2023 8:50	Field Blank	Pesticides	Parathion Ethyl	0.15 U	ng/L	0.15	0.77
12/11/2023 8:50	Field Blank	Pesticides	Cyanazine	5.1 U	ng/L	5.1	26
12/11/2023 8:50	Field Blank	Pesticides	Fipronil Desulfinyl	0.10 U	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Azinphos Methyl	3.1 U	ng/L	3.1	15
12/11/2023 8:50	Field Blank	Pesticides	Butylate	0.46 U	ng/L	0.46	2.3
12/11/2023 8:50	Field Blank	Pesticides	Carfentrazone Ethyl	0.15 U	ng/L	0.15	0.77
12/11/2023 8:50	Field Blank	Pesticides	Tebuconazole	1.4 U	ng/L	1.4	7.1
12/11/2023 8:50	Field Blank	Pesticides	Chlorpyrifos Methyl	0.10 UJ	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Ethion	0.31 U	ng/L	0.31	1.5
12/11/2023 8:50	Field Blank	Pesticides	Fipronil	0.20 U	ng/L	0.20	1.0
12/11/2023 8:50	Field Blank	Pesticides	Iprodione	0.51 U	ng/L	0.51	2.6
12/11/2023 8:50	Field Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
12/11/2023 8:50	Field Blank	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.6
12/11/2023 8:50	Field Blank	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.1
12/11/2023 8:50	Field Blank	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
12/11/2023 8:50	Field Blank	Pesticides	Prometon	3.1 U	ng/L	3.1	15
12/11/2023 8:50	Field Blank	Pesticides	Terbuthylazine	0.20 U	ng/L	0.20	1.0
12/11/2023 8:50	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.5
12/11/2023 8:50	Field Blank	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.1
12/11/2023 8:50	Field Blank	Pesticides	EPTC	0.51 U	ng/L	0.51	2.6
12/11/2023 8:50	Field Blank	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	15
12/11/2023 8:50	Field Blank	Pesticides	Fonofos	0.15 UJ	ng/L	0.15	0.77
12/11/2023 8:50	Field Blank	Pesticides	Hexazinone	0.51 U	ng/L	0.51	2.6
12/11/2023 8:50	Field Blank	Pesticides	Sucralose	0.010 U	µg/L	0.010	0.040
12/11/2023 8:50	Field Blank	Pesticides	Oxyfluorfen	0.20 U	ng/L	0.20	1.0

12/11/2023 8:50	Field Blank	Pesticides	Pendimethalin	1.7 U	ng/L	1.7	8.7
12/11/2023 8:50	Field Blank	Pesticides	Demeton	3.6 U	ng/L	3.6	18
12/11/2023 8:50	Field Blank	Pesticides	Dimethenamid	0.10 UJ	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Fipronil Sulfone	0.10 U	ng/L	0.10	0.51
12/11/2023 8:50	Field Blank	Pesticides	Metolachlor	0.77 U	ng/L	0.77	3.8
12/11/2023 8:50	Field Blank	Pesticides	Acetochlor	0.20 UJ	ng/L	0.20	1.0
12/11/2023 8:50	Field Blank	Pesticides	Atrazine	0.20 U	ng/L	0.20	1.0
12/11/2023 8:50	Field Blank	Pesticides	Naled	2.6 U	ng/L	2.6	13
12/11/2023 8:50	Field Blank	Pesticides	Propiconazole	0.61 U	ng/L	0.61	3.1
12/11/2023 8:50	Field Blank	Pesticides	Fenbuconazole	0.51 U	ng/L	0.51	2.6
12/11/2023 8:50	Field Blank	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
12/11/2023 8:50	Field Blank	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	41
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Anthracene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.1
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.82
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.41
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.2
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10

12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.2
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Fluoranthene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Phenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	41
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Isophorone	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.41
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	µg/L	10	41
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	41
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	µg/L	5.1	20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	8.2
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	µg/L	0.051	0.20
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.41
12/11/2023 8:50	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.51 U	µg/L	0.51	2.0