Effluent Quality Assessment of City of Largo AWWTF Pinellas County NPDES # FL0026603 Sampled April 29, 2024

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
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Summary of Results

All analytes measured in the effluent grab and composite samples complied with the Class III Water Quality Criteria for Fresh Waters and effluent permit limits. The toxicity test for the fish species was Q qualified for being run after the hold time. Several analyses were scheduled but not performed due to shipping or laboratory issues, including the toxicity test for the water flea, algal growth potential (AGP), *Escherichia coli* (*E. coli)*, chlorophyll *a*, total suspended solids, and nutrient analyses for the effluent composite sample. There were nineteen organic constituents detected in the effluent grab sample.

Facility Overview

The City of Largo AWWTF is a Type I domestic advanced wastewater treatment facility. 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. A short form consent order (OGC File #: 22-2537) for cadmium exceedances for biosolids was closed on November 14, 2023. The effluent is continuously discharged into an unnamed ditch that is part of the stormwater system within Feather Sound, that flows into Roosevelt Basin, a Class III Fresh Water [waterbody identification (WBID) 1624A] (Figure 1). Roosevelt Basin flows into WBID 1558H, Class II Marine waters of Old Tampa Bay, at Discharge Location D-001.

The Roosevelt Basin falls within the Peninsular Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). For this region, the NNC, expressed as annual geometric means, are 0.12 mg/L total phosphorus and 1.54 mg/L total nitrogen (Paragraph 62-302.531(2)(c), F.A.C.). The Roosevelt Basin falls within the Peninsular 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 monitoring site location EFD-01 and 24-hour flow proportioned composite samples were collected from monitoring site location EFA-02 for outfall D-001 on April 29, 2024. AGP analysis was not performed due to equipment issues in the laboratory. *E. coli* analysis was scheduled but enterococci analysis was requested by the samplers and performed by the overflow laboratory. Effluent samples were collected but not received for analysis of total suspended solids and chlorophyll *a*. Permit limits for nutrients specify composite samples; only grab samples were analyzed and reported for nutrients.

Samples were collected by Emmalise Hunter, Hannah Teague, and Alexandra Myers (Southwest District). Analyses were performed by Eurofins Laboratories in Savannah and Orlando, Benchmark EnviroAnalytical, Inc. in Palmetto, 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.

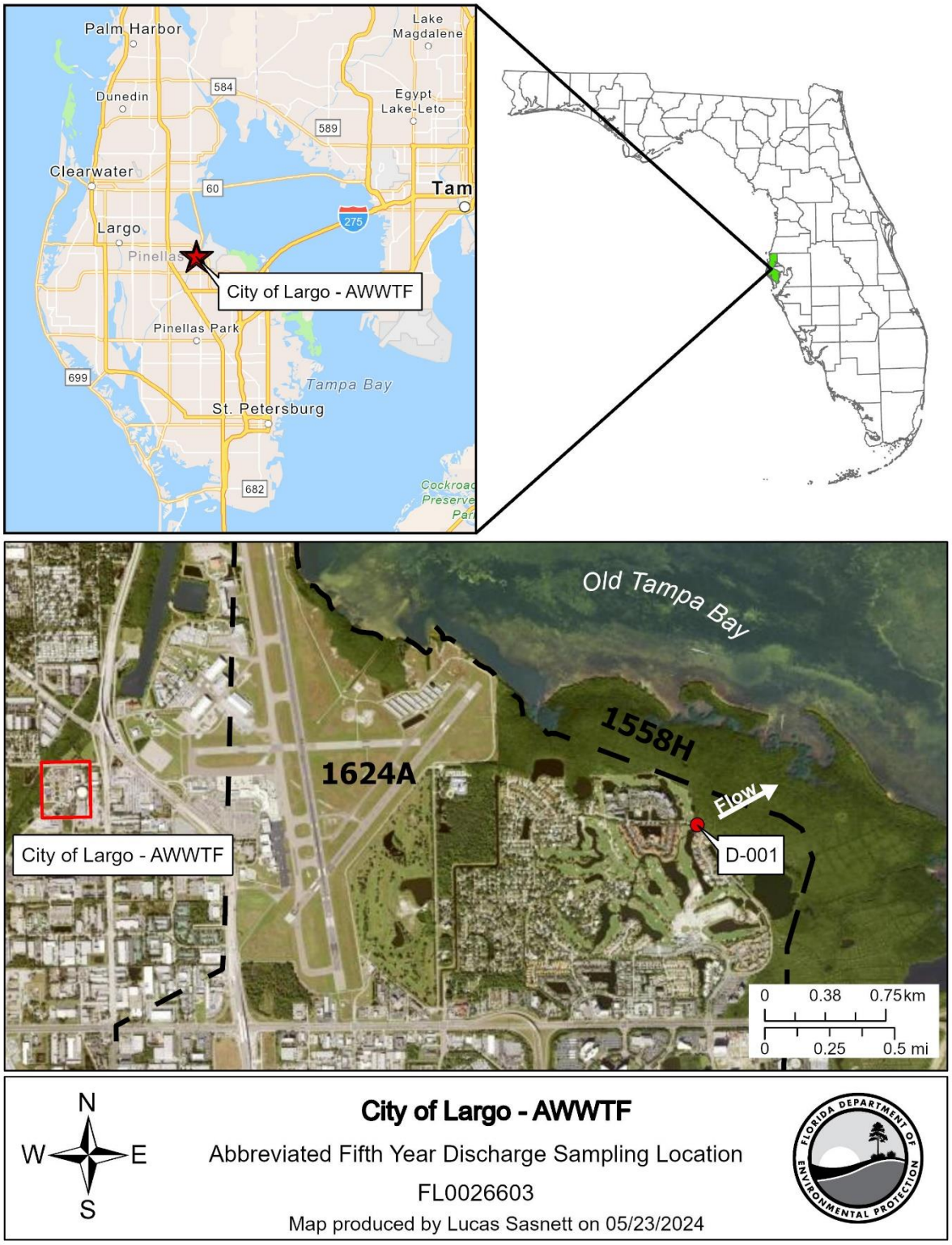


Figure 1. Map of Facility and Discharge Location

Results

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

- All measured effluent water quality parameters at EFD-01 complied with Class III Water Quality Criteria for Fresh Waters and pH complied with the EFA-02 effluent permit limit.

Analytical Water Chemistry (See Table 2 and Appendix D)

- The result for nitrate and nitrite was Y qualified. The sample was stored at room temperature for multiple days because of a power failure at the laboratory.

- The result for cyanide was Y qualified. The sample was received at the overflow laboratory outside of the required temperature criteria due to a shipping delay.

- Total phosphorus and total nitrogen for the EFD-01 effluent grab sample complied with permit limits for EFA-02 effluent composite samples. For comparative purposes only, total nitrogen in the effluent grab sample was greater than the annual geometric mean limit for NNC in the Peninsular Nutrient Watershed Region.

Microbiology (See Table 2 and Appendix B)

- EFD-01 effluent fecal coliform levels complied with the EFA-02 effluent permit limit.

- There is a Class III Water Quality Criterion for *E. coli.* This analysis was scheduled but enterococci analysis was performed.

Toxicity Whole Effluent Test (See Table 2)

- The test was performed May 1 through May 5, 2024.

- The sample was aerated for 15 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 9.3 mg/L to 8.0 mg/L.

- Acute bioassay results are reported as the Concentration Lethal to 50% of the test organisms (LC50).

- In a 96-hour acute definitive test of 100% effluent, mortality of <20% provides confidence that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Paragraph 62-302.500(1)(a), F.A.C.). Mortality between 20 and 50% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% indicates that the effluent fails to meet the minimum requirement to discharge to waters of the state (Paragraph 62-4.244(3)(a), F.A.C.).

- For the 96-hour acute definitive test, the calculated LC50 for the fish, *Pimephales promelas*, was >100% effluent with 0% mortality in 100% sample. The effluent sample was not toxic to the fish, *Pimephales promelas*, during the 96-hour acute definitive bioassays and therefore, complied with effluent permit limits.

- The 96-hour acute definitive test for the fish, *Pimephales promelas*, was Q qualified. The sample arrived on time, but the fish did not arrive until the following day. The water flea, *Ceriodaphnia dubia*, test was not able to be performed due to organism availability.

- For more information or to obtain copies of the toxicity bench sheets, please contact the Biology Laboratory at 850-245-8177.

Metals (See Table 3 and Appendix D)

- Effluent metals complied with Class III Water Quality Criteria for Fresh Waters. There are no effluent permit limits for metals.

Organic Constituents (See Table 4 and Appendix D)

- Ametryn (herbicide), Atrazine (herbicide), Azoxystrobin (fungicide), Chlorfenapyr (insecticide), Dimethomorph (fungicide), Fipronil Desulfinyl (insecticide), Fipronil Sulfide (insecticide), Fludioxonil (fungicide), Flutolanil (fungicide), Fluxapyroxad (fungicide), Loratadine (antihistamine), Oxadiazon (herbicide), Propiconazole (fungicide), Simazine (herbicide), Sulfentrazone (herbicide), Tebuconazole (fungicide), Bromodichloromethane (organic pollutant), Chloroform (organic pollutant), and Dibromochloromethane (organic pollutant) were detected in the effluent grab sample.

- The effluent grab single sample result was equal to the annual average permit limit for dichlorobromomethane (bromodichloromethane).

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	Effluent EFD-01
Temperature	C	-	-	28.1
pH	SU	6.0 - 8.5	6.0 - 8.5 (EFA-02)	6.9
Specific Conductance	µmhos/cm	≤ 1,275	-	1,082
Salinity	ppt	-	-	0.5
Dissolved Oxygen	% saturation	≥ 38	-	95.9
Dissolved Oxygen	mg/L	-	≥ 5 (EFD-1)	-

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

Table 2. Analytical water chemistry, microbiological, and toxicological data

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Composite EFA-02	Effluent Grab EFD-01
Ortho-phosphate	mg P/L	-	-	-	0.038
Total Phosphorus	mg P/L	≤ 0.12 g	≤ 2.0 sp (EFA-02)	-	0.083
Total Ammonia Nitrogen	mg N/L	≤ 2.90 sc	-	-	0.027
Un-ionized Ammonia (calc salinity)	mg N/L	-	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	-	1.5 Y
Total Kjeldahl Nitrogen	mg N/L	-	-	-	0.97
Organic Nitrogen	mg N/L	-	-	-	0.94 c
Total Nitrogen	mg N/L	≤ 1.54 g	≤ 6.0 sp (EFA-02)	-	2.5 c
Total Organic Carbon	mg C/L	-	-	-	9.0
CBOD, 5 day, N - inhibited	mg/L	-	≤ 10.0 sp (EFA-02)	2.0 U	-
Cyanide	mg/L	≤ 5.2	≤ 5.2 (EFD-1)	-	0.0060 UY
Fecal Coliforms	cfu/100 mL	-	≤ 25 s (EFA-02)	-	10 B
Enterococci	MPN/100 mL	-	-	-	10
Bioassay - Water flea *(C. dubia)*	% effluent	-	≥ 100 sp (EFD-01)	-	No Result O
Bioassay - Fish *(P. promelas)*	% effluent	-	≥ 100 sp (EFD-01)	-	> 100 Q

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
g - Value expressed as an annual geometric mean
p – 24-hour flow proportioned composite
s - Single sample
B - Results based on colony counts outside the acceptance range
O - Sampled, but analysis lost or not performed
L - Actual value is known to be greater than value given
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

Table 3. Analytical metals data

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

Analyte	Units	Effluent Permit Limits	Effluent Grab Class III Criteria	Effluent Grab
Hardness	mg CaCO3/L	-	-	293 c
Aluminum	µg/L	-	-	16 I
Arsenic	µg/L	-	≤ 50	0.44
Cadmium	µg/L	-	≤ 0.6 b	0.020 U
Calcium	mg/L	-	-	85.1
Chromium, Total [1]	µg/L	-	≤ 208 b	0.55 I
Copper	µg/L	-	≤ 23.4 b	3.05
Iron	µg/L	-	≤ 1,000	67 I
Lead	µg/L	-	≤ 12.5 b	0.44
Magnesium	mg/L	-	-	19.6
Nickel	µg/L	-	≤ 130 b	3.5
Potassium	mg/L	-	-	11.0
Selenium	µg/L	-	≤ 5.0	0.20 U
Silver	µg/L	-	≤ 0.07	0.010 U
Sodium	mg/L	-	-	109
Zinc	µg/L	-	≤ 298 b	16 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
1 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III

Table 4. 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	Effluent Grab
Ametryn	ng/L	-	-	5.6 I
Atrazine	ng/L	-	-	20
Azoxystrobin	ng/L	-	-	7.9 J
Chlorfenapyr	ng/L	-	-	3.8
Dimethomorph	ng/L	-	-	0.61 I
Fipronil Desulfinyl	ng/L	-	-	0.71
Fipronil Sulfide	ng/L	-	-	2.5
Fludioxonil	ng/L	-	-	1.6
Flutolanil	ng/L	-	-	0.65
Fluxapyroxad	ng/L	-	-	0.41 I
Loratadine	ng/L	-	-	41
Oxadiazon	ng/L	-	-	0.54 I
Propiconazole	ng/L	-	-	2.9 I
Simazine	ng/L	-	-	0.99 I
Sulfentrazone	ng/L	-	-	8.6
Tebuconazole	ng/L	-	-	3.2 I
Bromodichloromethane	µg/L	-	≤ 22.0 a	22
Chloroform	µg/L	-	-	66
Dibromochloromethane	µg/L	-	-	6.6

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
a - Annual average
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: Alexandra Myers	Contact Number: 813-470-5751
Facility Name (as it appears on permit): City of Largo - AWWTF	Former Names:
NPDES Permit Number: FL0026603	Permit Expiration Date: February 25, 2024
Physical Address: 5100 150th Avenue North, Clearwater FL, 33760-3502	
District: Southwest	County: Pinellas
Function of Facility: An existing 18.0 Million Gallons per Day (MGD) Annual Average Daily Flow (AADF), Type I A2O domestic wastewater treatment facility.	
Facility Type: Domestic Wastewater	Permitted Capacity (MGD): 18.0
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 7.66 MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): FLW-01 (R-001): 6.99 MGD	
Description of type of Discharge:	

☒ Continuous ☐ Intermittent ☐ Seasonal ☐ Rainfall Dependent

☐ Other, please specify:

Description of Sampling Location(s) - actual permit designation of permitted sampling point(s):

Monitoring Site Number	Description of Monitoring Site
FLW-02	Flow meter after chlorine effluent pump station (East) Feather Sound.
EFA-02	After chlorine contact chamber (East, Feather Sound).
OTH-01	Feather Sound Pond.
EFB-02	After denitrification filters and prior to disinfection (Feather Sound).
EFD-01	After dechlorination and prior to final discharge.

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 15.0 MGD annual average daily flow (AADF) discharge to an unnamed ditch, that is part of the stormwater system within Feather Sound, into the Class III Fresh waters of Roosevelt Basin, WBID 1624A. Roosevelt Basin flows into WBID 1558H, Class II Marine waters of Old Tampa Bay, at Discharge Location D-001, which is at a depth of approximately 2 feet. The point of discharge is located approximately at latitude 27°54' 17.5958" N, longitude 82°39' 48.1628" W.

Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility):

WASTEWATER TREATMENT:

An existing 18.0 MGD annual average daily flow (AADF) Type I domestic advanced wastewater treatment facility, using a high rate three-stage biological nutrient removal process, commonly referred as the A2O process. The overall plant consists of fine screens with screenings compactors, two 21.5 MGD grit removal units, three 200 gpm grit pumps (two duty, one spare), two grit washer separators, and flow splitting weirs and gates to isolate equipment, split flow equally to the three process trains, and a new bio-trickling filter odor control system, 5.0 MG flow equalization tank, three primary clarifiers of 701,250 gallons total volume and 7,200 square feet of total surface area, three anaerobic basins of 610,250 gallons total volume, three anoxic basins of 395,700 gallons total volume, three aerobic basins of 2,267,600 gallons total volume, six final clarifiers of 2,933,000 gallons total volume and a total surface area of 30,160 square feet, two disc filters of 18.0 MGD total volume, nine deep bed denitrification filters of 5,400 square feet total surface area, a 37,600 gallon clearwell, one chlorine contact chamber of 502,000 gallons, one peracetic acid contact chamber of 386,000 gallons and a 71,200-gallon dechlorination basin. The disinfection tank includes an east side and a west side. Disinfected water in the east tank will be dechlorinated and flow to Feather Sound. This facility is operated to provide advanced wastewater treatment (AWT) and high-level disinfected reclaimed water to a master reuse system within the City of Largo, the Carillon area and within the City of St. Petersburg, or to discharge effluent through an outfall to the stormwater system within Feather Sound and thence to Tampa Bay.

The on-site biosolids treatment facility has a capacity of 16 dry tons per day. The biosolids treatment facility consists of four 955,000-gallon aerobic digesters for a total volume of 3,820,000 gallons, 50-ft diameter thickener, double disc diaphragm thickened sludge pumps, sludge dewatering using belt-filter presses and a heat drying process for pelletization producing a marketable bulking agent used in fertilizer.

MODIFICATION

Change from one peracetic acid (PAA) contact chamber to two chlorine contact chambers: one chamber of 300,673 gallons (west tank), and one chamber of 287,380 gallons (east tank). Removal of bulking agent language from on-site biosolids treatment facility description.

Updated minor revision from FL0026603-015-DW1/MR, issued June 24, 2021, to modify the chlorine contact chambers to one chamber of 282,221 gallons, and one chamber of 212,083 gallons.

AFTER MODIFICATION

An existing 18.0 MGD annual average daily flow (AADF) Type I domestic advanced wastewater treatment facility, using a high rate three-stage biological nutrient removal process, commonly referred as the A2O process. The overall plant consists of fine screens with screenings compactors, two grit removal units, three grit pumps (two duty, one spare), two grit washer separators, and flow splitting weirs and gates to isolate equipment, split flow equally to the three process trains, and a new bio-trickling filter odor control system, flow equalization tank, three primary clarifiers, three anaerobic basins, three anoxic basins, three aerobic basins, six final clarifiers.

After the final clarifiers the flow splits to surface water and reclaimed water treatment trains.

List current 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	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max	15.0 Report	Annual Average Monthly Average	Monthly Continuous	Calculated Meter	FLW-02	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max	5.0	Annual Average	Monthly	Calculated	EFA-02	See I.A.6
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	6.25 7.5 10.0	Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFA-02	See I.A.6
Solids, Total Suspended	mg/L	Max	5.0	Annual Average	Monthly	Calculated	EFA-02	
Solids, Total Suspended	mg/L	Max Max Max	6.25 7.5 10.0	Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFA-02	See I.A.6
Nitrogen, Total	mg/L	Max	3.0	Annual Average	Monthly	Calculated	EFA-02	See I.A.12
Nitrogen, Total	mg/L	Max Max Max	3.75 4.5 6.0	Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFA-02	See I.A.11 and I.A.12
Nitrogen, Total	mg/L	-	Report	Single Sample	Weekly	Grab	OTH-01	See I.A.10
Dichlorobromo methane	ug/L	-	Report	Single Sample	Weekly	Grab	OTH-01	See I.A.10
Phosphorus, Total (as P)	mg/L	Max	1.0	Annual Average	Monthly	Calculated	EFA-02	
Phosphorus, Total (as P)	mg/L	Max Max Max	1.25 1.5 2.0	Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFA-02	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Daily; 24 hours	Grab	EFB-02	
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-02	See I.A.3
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Minimum	Monthly	Calculated	EFA-02	See I.A.7
Coliform, Fecal	#/100 mL	Max	25	Single Sample	Daily; 24 hours	Grab	EFA-02	
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Daily; 24 hours	Grab	EFD-01	See I.A.8
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Continuous	Continuous	Meter	EFA-02	See I.A.8
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Daily; 24 hours	Grab	EFD-01	
Cyanide, Total (as CN)	ug/L	Max	5.2	Single Sample	Quarterly	Grab	EFD-01	
Dichlorobromo methane	ug/L	Max Max	22.0 Report	Annual Average Single Sample	Monthly	Grab	EFD-01	
Nitrogen, Total	ton/mth	Max	Report	Monthly Total	Monthly	Calculated	EFA-02	See I.A.11 and I.A.12
Nitrogen, Total	ton/yr	Max Max	28.5 19.0	Annual Total 5 Year Average	Monthly	Calculated	EFA-02	See I.A.11 and I.A.12
Chronic Whole Effluent Toxicity, 7-Day IC25	percent	Min	100	Single Sample	Semi-annually	24-hr FPC	EFD-01	See I.A.9

(Ceriodaphnia dubia)									
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Semi-annually	24-hr FPC	EFD-01	See I.A.9	

PART I: Continued	
Receiving Waters: Unnamed ditch	Classification (indicate whether fresh or marine): Class III fresh waters

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.):

The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001. a. Effluent Limitation (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) for reproduction or growth shall not be less than 100% effluent. [Rules 62- 302.530(61) and 62-4.241(1)(b), F.A.C.]

(2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. [Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]

b. Monitoring Frequency (1) Routine toxicity tests shall be conducted once every three months, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.

(2) Upon completion of four consecutive valid routine tests that demonstrate compliance with the effluent limitation in I.A.9.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency to once every six months. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four consecutive valid routine tests that demonstrate compliance with the effluent limitation in I.A.9.a.(1) above.

(3) If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821-R-02-013, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.

c. Sampling Requirements (1) For each routine test or additional follow-up test conducted, a total of three flow proportional 24-hr composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.
(2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
(3) Samples for routine and additional follow-up tests shall not be collected on the same day.

d. Test Requirements (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.

(2) The permittee shall conduct a daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and a fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th Edition, EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.

(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-013, Section 7.2.3.

e. Quality Assurance Requirements (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides

the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
(2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or the "test acceptability criteria" are not met, the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (**Ceriodaphnia dubia**) and Section 11.11 (**Pimephales promelas**). The repeat test shall begin within 21 days after the last day of the invalid test.
(3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

Reporting Requirements (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
(a) Routine and Additional Follow-up Test Results: The calculated IC25 for reproduction or growth for each test species shall be entered on the DMR.

A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
The same bioassay data shall not be reported as the results of more than one test.
All bioassay laboratory reports shall be sent to:

Florida Department of Environmental Protection
Southwest District Office
13051 N Telecom Pkwy, Suite 101,
Temple Terrace, Florida 33637-0926
swd_dw@dep.state.fl.us

g. Test Failures (1) A test fails when the test results do not meet the limits in I.A.9.a.(1).
(2) Additional Follow-up Tests: (a) If a routine test does not meet the chronic toxicity limitation in I.A.9.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with I.A.9.d.
(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.

(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure. (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
(b) The Department shall review and approve the plan before initiation.
(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
(d) Progress reports shall be submitted quarterly to the Department at the address above.
(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with I.A.9.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in I.A.9.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in I.A.9.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by

a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.
(4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in I.A.9.a.(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.
(5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.):

Short form consent order OGC File #: 22-2537 was closed on November 14, 2023.

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:

The following exceedances were noted in the last year.

P 51005	Coliform, Fecal, % less than detection	62	75	percent	TM - Minimum Total Monthly
P 51005	Coliform, Fecal, % less than detection	55	75	percent	MO - Monthly Minimum
P 51005	Coliform, Fecal, % less than detection	65	75	percent	TM - Minimum Total Monthly
P 51005	Coliform, Fecal, % less than detection	58	75	percent	MO - Monthly Minimum
P 51005	Coliform, Fecal, % less than detection	58	75	percent	TM - Minimum Total Monthly
P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	5.57	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	520	500	mg/L	MB - Maximum
P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	5.72	6.5-8.5	s.u.	RG - RANGE
P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	6.06	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	920	500	mg/L	MB - Maximum
P 00940	Chloride (as Cl)	430	250	mg/L	MB - Maximum

P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	6.2	6.5-8.5	s.u.	RG - RANGE
P 00923	Sodium, Total Recoverable	190	160	mg/L	MB - Maximum
P 00665	Phosphorus, Total (as P)	3.91	2	mg/L	MB - Maximum
P 51005	Coliform, Fecal, % less than detection	57	75	percent	MO - Monthly Minimum
P 51005	Coliform, Fecal, % less than detection	33	75	percent	TM - Minimum Total Monthly
P 00665	Phosphorus, Total (as P)	2.7	2	mg/L	MB - Maximum
P 51005	Coliform, Fecal, % less than detection	71	75	percent	TM - Minimum Total Monthly
P 78476	Cadmium, Sludge, Tot, Dry Weight (as Cd)	47	39	mg/kg	MK - Monthly Average
P 00978	Arsenic, Total Recoverable	12	10	ug/L	MB - Maximum
P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	5.54	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	870	500	mg/L	MB - Maximum
P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	5.89	6.5-8.5	s.u.	RG - RANGE
P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	5.99	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	950	500	mg/L	MB - Maximum
P 00940	Chloride (as Cl)	370	250	mg/L	MB - Maximum
P 01114	Lead, Total Recoverable	17	15	ug/L	MB - Maximum
P 00400	pH	6.06	6.5-8.5	s.u.	RG - RANGE
P 00923	Sodium, Total Recoverable	170	160	mg/L	MB - Maximum
P 51005	Coliform, Fecal, % less than detection	68	75	percent	MO - Monthly Minimum
P 51005	Coliform, Fecal, % less than detection	74	75	percent	TM - Minimum Total Monthly
P 00665	Phosphorus, Total (as P)	4.79	2	mg/L	MB - Maximum
P 51005	Coliform, Fecal, % less than detection	74	75	percent	TM - Minimum Total Monthly
P 70295	Solids, Total Dissolved (TDS)	690	500	mg/L	MB - Maximum
P 00400	pH	5.74	6.5-8.5	s.u.	RG - RANGE

P 00400	pH	5.95	6.5-8.5	s.u.	RG - RANGE
P 00400	pH	6.21	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	880	500	mg/L	MB - Maximum
P 00400	pH	6.14	6.5-8.5	s.u.	RG - RANGE
P 00923	Sodium, Total Recoverable	210	160	mg/L	MB - Maximum
P 00665	Phosphorus, Total (as P)	3.06	2	mg/L	MB - Maximum
P 51005	Coliform, Fecal, % less than detection	73	75	percent	TM - Minimum Total Monthly
P 70295	Solids, Total Dissolved (TDS)	674	500	mg/L	MB - Maximum
P 00400	pH	5.84	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	544	500	mg/L	MB - Maximum
P 00400	pH	6.13	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	550	500	mg/L	MB - Maximum
P 00400	pH	6.26	6.5-8.5	s.u.	RG - RANGE
P 70295	Solids, Total Dissolved (TDS)	1000	500	mg/L	MB - Maximum
P 00940	Chloride (as Cl)	460	250	mg/L	MB - Maximum
P 00400	pH	6.05	6.5-8.5	s.u.	RG - RANGE
P 00923	Sodium, Total Recoverable	190	160	mg/L	MB - Maximum

Describe previous FYI and WQBEL study:

N/A

Describe previous or current Enforcement Actions (including WLs):

A short form consent order was closed on November 14, 2023 for Cadmium exceedances for biosolids.

Describe any violations or problems noted in previous inspection:

2.1 Deficiency: The facility did not submit a report with findings and recommendations for the re-evaluation of the existing ground water monitoring plan within 120 days of permit effective date (January 15, 2022).

Rule/Permit Reference: Rule 62-62.320(6) F.A.C. and Specific Permit Condition VI. 1. (e.) states, in part, any permit that the Department issues shall contain specific conditions necessary to provide reasonable assurance that Department rules will be met, and improvement actions shall be completed according to the schedule.

Corrective Acton: Within 30 days of the date of this letter, provide the re-evaluation of the existing ground water monitoring plan to the Department.

4.1 Deficiency: For the Biosolid's 30 Day Pellet two chain of custodies (COCs) the name, address, and contact information of the sampler was not provided.

Rule/Permit Reference: Rule 62-620.610(18), F.A.C., states that sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.

Corrective Action: Ensure that the COCs for analytical samples are completed with the required sampler contact information.

5.1 Deficiency: The following items were noted during the QA audit:

1. Part A on the September 2021 DMR at monitoring location RMP-AA did not record the number of exceedances in the "No. Ex." Column.
2. Part B DMR is not the most current template that was issued with their permit on June 29, 2020.
3. Part A and Part B of the DMR had transcription errors for FLW-01, FLW-03 and cyanide.
4. Groundwater field sheet did not record of the equipment volume purged on the purging data sheet.

Rule/Permit Reference: Rule 62-600.650 (5) and 62-600.680 (1)(b) F.A.C. states, in part, DMRs shall be submitted for each required monitoring period and shall not submit misleading, false, or inaccurate information or operational reports to the Department, either knowingly or through neglect.

Corrective Action: Within the next reporting period:

1. Ensure that Part A of the DMR reflects the same number of exceedances as Part B.
2. Use the current DMR Part B template.
3. Ensure there are no DMR transcription errors from Part A to Part B.
4. Ensure the equipment volume purged is recorded on the groundwater field sheet.

5.2 Deficiency: For the May 2021 DMR, the facility did not report the failed toxicity results for the 25 percent inhibition concentration (IC25) for *pimephales promelas*.

Rule/Permit Reference: Specific Permit Condition I. A. 9. f. (1) and Rule 62-620.620 (3) states, in part, results from all required tests shall be reported on the DMR including routine and additional follow-up test results.

Corrective Action: Within 30 days of the date of this letter, resubmit the May 2021 DMR to include all samples taken and provide a response to the deficiency including how the facility will prevent recurrence.

5.3 Deficiency: The February 2021, May 2021, August 2021, and June 2021 follow-up bioassay laboratory reports were not submitted.

Rule/Permit Reference: Specific Permit Condition I. A. 9. f. (2) and Rule 62-620.620 (3)(j) states, in part, a bioassay laboratory report for each routine test shall be submitted to the Department within 30 days after the last day of the test.

Corrective Action: Within 30 days of the date of this letter please submit the missing bioassay laboratory reports. Please ensure that all future toxicity bioassay reports are submitted through either EzDMR or via email.

9.1 Deficiency: For the May 2021 at monitoring site EFD-01 failed the IC25 test for *pimephales promelas*.

Rule/Permit Reference: Specific Permit Condition No. I. A. 1. And 62-302.532 states, in part, effluent water shall be limited and monitored by the permittee as specified in the permit and the surface water quality criteria.

Corrective Action: Provide an explanation to the Department within 30 days of this letter to address these issues.

9.2 Deficiency: A review of the DMRs indicated exceedances listed in *Table 2: Effluent Exceedances* of *Attachment B.*

Rule/Permit Reference: Specific Permit Condition No. I. A. and B. in the permit and Rules 62-302.532 states, in part, Outfall D-001 and Reuse System R-001 effluent shall be limited and monitored by the permittee as specified in the permit and the surface water quality criteria. Rule 62-600.410(1), F.A.C., states, in part, all domestic wastewater facilities shall be operated and maintained in accordance with the applicable provisions of this chapter and related regulations so as to attain, at a minimum, the reclaimed water or effluent quality required by the wastewater facility permit.

Corrective Action: Provide an explanation to the Department within 30 days of this letter to address these issues.

11.1 Deficiency: A review of the DMRs indicated cadmium exceedances from monitoring location RMP-AA that are listed in *Table 2: Cadmium Exceedances* of *Attachment C*.

Rule/Permit Reference: Specific Permit Condition II. B. 7. And Rule 62-640.700 (5) (a) and (b) states, in part, Class AA biosolids shall comply with the limits and be shall be monitored by the permittee as specified in the permit.

Corrective Action: Within 15 days of the date of this letter, schedule a meeting with the Florida Department of Environmental protection per WL# 22-25DW52SWD to discuss the exceedances listed below and the City of Largo's February 16, 2022 response.

12.1 Deficiency: A review of the DMR indicated groundwater exceedances for monitoring wells MWC-08, MWC-09, MWC-11 and MWC-12 that are listed in *Table 3: Groundwater Exceedances* of *Attachment D.*

Rule/Permit Reference: Permit Condition No. III. B. 6. and Rule 62.520.400 F.A.C. states, in part, provide that the groundwater minimum criteria shall be met within the zone of discharge.

Corrective Action: Within 30 days of the date of letter, provide a follow-up response to the groundwater monitoring plan review request.

13.1 Deficiency: No adequate signage at lift station #54 located on Lake Avenue SE.

Rule/Permit Reference: Rule 62-604.400 (2) (d) F.A.C. states, in part, an unobstructed sign made of durable weather resistant material shall be posted at a location visible to the public with a telephone number for a point of contact in case of emergency.

Corrective Action: Within 30 days of the date of this letter, place an adequate sign at lift station #54.

13.2 Deficiency: Sanitary sewer overflow reports were reviewed from January 28, 2021 through January 27, 2022. Approximately eight overflows occurred, of which five entered surface waters.

Rule/Permit Reference: Rule 62-604.130 (1) F.A.C. states, in part, the release or disposal of excreta, sewage, or other wastewaters or biosolids without providing proper treatment approved by the Department; construction or operation of a wastewater collection system not in compliance with this rule; or any act otherwise violating provisions of this rule or of any other rules of the Department.

Corrective Action: Within 30 days of the date of this letter, provide a response to the SSO events.

13.3 Deficiency: On October 6, 2021, the facility had a bypass event. Approximately 884,953 gallons of partially treated effluent discharged into unnamed ditch, and ultimately to the Class II Marine waters of Old Tampa Bay

Rule/Permit Reference: Rule 62-604.130 (1) Florida Administrative Code (F.A.C.) states, in part, the release or disposal of excreta, sewage, or other wastewaters or biosolids without providing proper treatment approved by the Department; construction or operation of a wastewater collection system not in compliance with this rule; or any act otherwise violating provisions of this rule or of any other rules of the Department.

Corrective Action: Within 30 days of the date of this letter, provide a response to the bypass event.

Discuss whether DMR trends within previous five years are improving or declining: DMR trends seem stable.
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse): N/A

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.

- **Toxicity Bioassays**

  Greater than 50% mortality in an acute toxicity test may constitute an exceedance of Paragraph 62-302.500(1)(a) and/or facility permit limits. A 25% inhibition concentration (IC25) is the effluent concentration causing a 25% reduction in a biological response such as biomass or reproduction when compared to a control population. An IC25 of less than 100% in a chronic test may constitute exceedances of Subsection 62-302.530(20), Subsection 62-302.530(62) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of Subsection 62-302.530(62) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

- **Bacteriological Testing**

  High levels of fecal indicator bacteria may constitute an exceedance of Subsection 62-302.530(6) and/or facility permit limits. Fecal coliform results often are based on colony counts outside the acceptable range (B-qualifier). The dilutions performed on the sample did not yield results within the method acceptable range of 20- 60 colony forming units per plate. The B-qualifier does not affect data quality.

- **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-2024-04-15-61

FYI3 City of Largo WWTP (FL0026603) SWD

Customer: SW-DIST

Project ID: FYI3

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 4

last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Alexandra Myers

Collected By: Emmalise Hunter, Hannah Teague, Alexandra Myers

Sampling Agency: SWD FDEP

Location: ~~EFA 02~~ ~~EH~~ City of Largo WWTP	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 4/28/24 Time 8:39am Eastern Central				Composite end Date 4/29/24 Time 7:57am					Bottle Group(s) (See pg 2): B
Field ID: EFA-02	Matrix (type, e.g., Salt, Fresh, etc): Fresh			Diss. Oxygen 95.9 ☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)					
WIN/STORET #	Temp (C) 28.1		pH 6.88		Sample Depth Point of discharge ☐ ft ☐ m			Sp. Conductance (umho/cm) 1082			
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.53		Comments							
Location: City of Largo WWTP	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/29/24 Time Eastern Central				Composite end Date Time					Bottle Group(s): A
Field ID: EFD-01	Matrix (type, e.g., Salt, Fresh, etc): Fresh			Diss. Oxygen 95.9 ☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)					
WIN/STORET #	Temp (C) 28.1		pH 6.88		Sample Depth Point of discharge ☐ ft ☐ m			Sp. Conductance (umho/cm) 1082			
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.53		Comments							
Location: Field Blanks	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/29/24 Time 10:00am Eastern Central				Composite end Date Time					Bottle Group(s): C
Field ID	Matrix (type, e.g., Salt, Fresh, etc): DI			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: Trip Blank	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central				Composite end Date Time					Bottle Group(s): D
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
Emmalise Hunter	4/29/24 2:11pm	FEDEX	3	Chm	4-30-24 / 9:05

Benchmark EnviroAnalytical, Inc. E84167	Benchmark EA South E85086
1711 Twelfth Street East Palmetto, FL 34221 (941) 723-9986 / (941) 723-6061 fax Sample Temperature checked upon receipt at BEA with Temperature Gun ID #258	1001 Corporate Avenue, Suite 102 North Port, FL 34289 (941) 625-3137 (941) 423-7336 fax Sample Temperature checked upon receipt at BEAS with Temperature Gun ID #7

Client Information: FDEP

Address: 13051 N. Telecom Parkway
Tampa FL 33604

Phone # 815-470-5878

Report to: benjamin.paswater@dep.state.fl.us + emmalise.c.hunter @floridaDEP.gov

Invoice to: FDEP Micro Overflow

PO# _____

Project Name: City of Largo RQ-2024-04-15-61

Laboratory Submission # 2404740

Sample Name	Sample Type[1] / Sample Matrix[2]	Collection Date	Collection Time	Container Qty	Container Capacity	Container Type[3]	Preservative[4]	Parameters for Analysis	Laboratory Sample #
City of Largo EFD-01 FC	Grab	4/29/24	10:00am	1		P		Fecal Coliform	1
City of Largo EFD-01 ENT		4/29/24	10:00am	1		P		Enterococci	2

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), fresh surface water (FSW), saline surface water (SSW), soil, sediment (SDMNT), or sludge (SLDG).
3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4. Sample must be refrigerated or stored in wet ice after collection. The temperature during storage should be less than or equal to 6°C (42.8°F).
5. Under "Preservative," list any preservatives that were added to the sample container. Lot Number of preservative used is specific to the bottles included in the kit. $NaThio$, H_2SO_4 and HNO_3 do not have expiration dates per the manufacturer. Micro bottles are pre-preserved at manufacturing stage. 40mL vials are pre-preserved at manufacturing stage.

Instructions:

1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.
5. Sample kit has been created by BEA using new, certified bottles unless otherwise noted.

Laboratory Sample Acceptability:

pH <2 : ☐ BEA Temperature:
BEAS Temperature:

	Collected / Relinquished By & Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time
1	SWFDEP Emmalise Hunter	4/29/24	15:22am	Nathan Hadsell	4.29.24	1122
2	Relinquished By& Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time

Pg Box

670-38923

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: LAB145

Contract Manager: Linda Allen/Devan Cobb (850)-245-8084 / (850) 245-8078
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins Environmental Testing Southeast, LLC
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: Devan R. Cobb-Williams Contractor Approval By: Noel Savoie
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 4/3/2024
Means of Contact: Email

Task Assignment Number: OV552 Maximum Cost: **$41.50** Turnaround Time: 5 BD

Sample Delivery Date: 4/30/2024

Project Name/Description:
RQ-2024-04-15-61;FYI3 City of Largo WWTP (FL0026603) SWD

Deliverable Number/ Parameter Group/ Method	**Sample Matrix**	**# of Samples**	**# of Containers**	**DEP ID #**	**Unit Cost**	**% Mark-up (if any)**	**Cost**
Quote/OV-CBOD-IN CBOD, nitrogen-inhibited 5210B-2011	W	1	1		$39.00		$39.00
217/Sample Disposal Fee:		1			$2.50		$2.50
Total Number of Containers Shipped:		1				**Total:**	**$41.50**

QC Instructions:

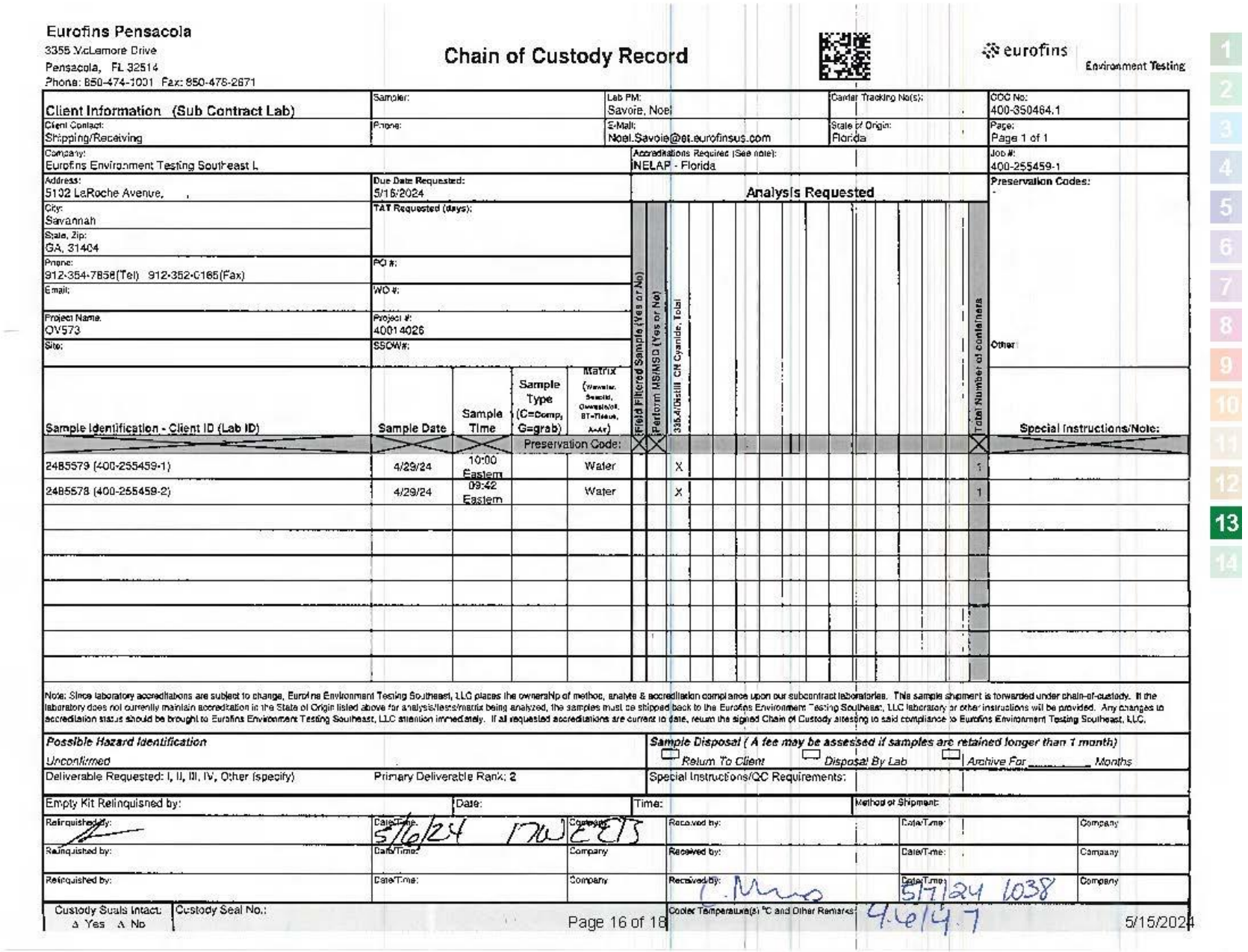
Comments: Quote #

Samples released to Contract Lab by: _____ Date/Time: _____

Delivery Method: _____Shipping_____

Samples Accepted by: Orlando Date/Time 4/30/24 0920

* **Please sign and return by email to** Linda.S.Allen@FloridaDEP.gov and Devan.R.Cobb@dep.state.fl.us 2.3/2.3C



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: 400-350464.1
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 L		Accreditations Required (See note): NELAP - Florida		Job #: 400-255459-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 5/15/2024	Analysis Requested		Preservation Codes: -
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: OV573	Project #: 40014026			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil/waste, 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:									
2485579 (400-255459-1)	4/29/24	10:00 Eastern		Water			X	1	
2485578 (400-255459-2)	4/29/24	09:42 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: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ 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: 5/6/24 1700	Company: E&S	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Munro	Date/Time: 5/7/24 1038	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.6/4.7

Appendix D. Chemical Analysis of Effluent

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 7:57	Effluent Composite	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0
4/29/2024 9:42	Effluent Grab	Overflow	Enterococci-Quanti-Tray	10	MPN/100 mL	10	10
4/29/2024 9:42	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	10 B	cfu/100 mL	10	10
4/29/2024 9:42	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 LQ	LC50		
4/29/2024 9:42	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	No Result O	LC50		
4/29/2024 9:42	Effluent Grab	Metals	Aluminum	16 I	µg/L	5.0	20
4/29/2024 9:42	Effluent Grab	Metals	Magnesium	19.6	mg/L	0.040	0.16
4/29/2024 9:42	Effluent Grab	Metals	Potassium	11.0	mg/L	0.30	1.2
4/29/2024 9:42	Effluent Grab	Metals	Lead	0.44	µg/L	0.20	0.40
4/29/2024 9:42	Effluent Grab	Metals	Calcium	85.1	mg/L	0.075	0.30
4/29/2024 9:42	Effluent Grab	Metals	Iron	67 I	µg/L	30	120
4/29/2024 9:42	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
4/29/2024 9:42	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Metals	Arsenic	0.44	µg/L	0.050	0.20
4/29/2024 9:42	Effluent Grab	Metals	Chromium	0.55 I	µg/L	0.40	1.6
4/29/2024 9:42	Effluent Grab	Metals	Zinc	16 I	µg/L	5.0	20
4/29/2024 9:42	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
4/29/2024 9:42	Effluent Grab	Metals	Nickel	3.5	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Metals	Copper	3.05	µg/L	0.40	0.80
4/29/2024 9:42	Effluent Grab	Metals	Sodium	109	mg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Nutrients	Ammonia-N	0.027	mg N/L	0.0020	0.0050
4/29/2024 9:42	Effluent Grab	Nutrients	O-Phosphate-P	0.038	mg P/L	0.0040	0.010
4/29/2024 9:42	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.97	mg N/L	0.080	0.20
4/29/2024 9:42	Effluent Grab	Nutrients	NO2NO3-N	1.5 Y	mg N/L	0.040	0.10
4/29/2024 9:42	Effluent Grab	Nutrients	Organic Carbon	9.0	mg C/L	0.50	1.0
4/29/2024 9:42	Effluent Grab	Nutrients	Total-P	0.083	mg P/L	0.010	0.050
4/29/2024 9:42	Effluent Grab	Overflow	Cyanide	0.0060 UY	mg/L	0.0060	0.020
4/29/2024 9:42	Effluent Grab	Pesticides	Fludioxonil	1.6	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Loratadine	41	ng/L	0.31	1.6
4/29/2024 9:42	Effluent Grab	Pesticides	Metalaxyl	0.52 U	ng/L	0.52	2.6
4/29/2024 9:42	Effluent Grab	Pesticides	Metribuzin	0.42 U	ng/L	0.42	2.1

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 9:42	Effluent Grab	Pesticides	Propargite	0.84 U	ng/L	0.84	4.2
4/29/2024 9:42	Effluent Grab	Pesticides	Propiconazole	2.9 I	ng/L	0.63	3.1
4/29/2024 9:42	Effluent Grab	Pesticides	Tebuconazole	3.2 I	ng/L	1.5	7.3
4/29/2024 9:42	Effluent Grab	Pesticides	Ametryn	5.6 I	ng/L	1.2	5.8
4/29/2024 9:42	Effluent Grab	Pesticides	Butylate	0.47 U	ng/L	0.47	2.4
4/29/2024 9:42	Effluent Grab	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Flutolanil	0.65	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Coumaphos	1.1 U	ng/L	1.1	5.8
4/29/2024 9:42	Effluent Grab	Pesticides	Napropamide	0.73 U	ng/L	0.73	3.7
4/29/2024 9:42	Effluent Grab	Pesticides	Difenoconazole	0.63 U	ng/L	0.63	3.1
4/29/2024 9:42	Effluent Grab	Pesticides	Prometon	3.1 U	ng/L	3.1	16
4/29/2024 9:42	Effluent Grab	Pesticides	Pyridaben	1.5 U	ng/L	1.5	7.3
4/29/2024 9:42	Effluent Grab	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.7
4/29/2024 9:42	Effluent Grab	Pesticides	Triadimefon	0.16 U	ng/L	0.16	0.78
4/29/2024 9:42	Effluent Grab	Pesticides	Atrazine	20	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Atrazine Desethyl	1.4 U	ng/L	1.4	6.8
4/29/2024 9:42	Effluent Grab	Pesticides	Carbophenothion	0.52 U	ng/L	0.52	2.6
4/29/2024 9:42	Effluent Grab	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.65
4/29/2024 9:42	Effluent Grab	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.2
4/29/2024 9:42	Effluent Grab	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.65
4/29/2024 9:42	Effluent Grab	Pesticides	Sulfentrazone	8.6	ng/L	1.5	7.3
4/29/2024 9:42	Effluent Grab	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Cyanazine	5.2 U	ng/L	5.2	26
4/29/2024 9:42	Effluent Grab	Pesticides	Ethion	0.31 U	ng/L	0.31	1.6
4/29/2024 9:42	Effluent Grab	Pesticides	Fenamiphos	0.47 U	ng/L	0.47	2.4
4/29/2024 9:42	Effluent Grab	Pesticides	Fipronil Sulfone	0.10 U	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Fonofos	0.16 U	ng/L	0.16	0.78
4/29/2024 9:42	Effluent Grab	Pesticides	Hexazinone	0.52 U	ng/L	0.52	2.6
4/29/2024 9:42	Effluent Grab	Pesticides	Parathion Ethyl	0.16 U	ng/L	0.16	0.78
4/29/2024 9:42	Effluent Grab	Pesticides	Pendimethalin	1.8 U	ng/L	1.8	8.9
4/29/2024 9:42	Effluent Grab	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
4/29/2024 9:42	Effluent Grab	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Simazine	0.99 I	ng/L	0.26	1.3
4/29/2024 9:42	Effluent Grab	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 9:42	Effluent Grab	Pesticides	Azinphos Methyl	3.1 U	ng/L	3.1	16
4/29/2024 9:42	Effluent Grab	Pesticides	Azoxystrobin	7.9 J	ng/L	0.42	2.1
4/29/2024 9:42	Effluent Grab	Pesticides	Caffeine	7.8 U	ng/L	7.8	39
4/29/2024 9:42	Effluent Grab	Pesticides	Disulfoton	0.63 U	ng/L	0.63	3.1
4/29/2024 9:42	Effluent Grab	Pesticides	EPTC	0.52 U	ng/L	0.52	2.6
4/29/2024 9:42	Effluent Grab	Pesticides	Fenbuconazole	0.52 U	ng/L	0.52	2.6
4/29/2024 9:42	Effluent Grab	Pesticides	Fipronil Sulfide	2.5	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	16
4/29/2024 9:42	Effluent Grab	Pesticides	Malathion	0.37 U	ng/L	0.37	1.8
4/29/2024 9:42	Effluent Grab	Pesticides	Myclobutanil	0.37 U	ng/L	0.37	1.8
4/29/2024 9:42	Effluent Grab	Pesticides	Oxadiazon	0.54 I	ng/L	0.37	1.8
4/29/2024 9:42	Effluent Grab	Pesticides	Prometryn	0.37 U	ng/L	0.37	1.8
4/29/2024 9:42	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.16 U	ng/L	0.16	0.78
4/29/2024 9:42	Effluent Grab	Pesticides	Chlorfenapyr	3.8	ng/L	0.31	1.6
4/29/2024 9:42	Effluent Grab	Pesticides	Fluxapyroxad	0.41 I	ng/L	0.26	1.3
4/29/2024 9:42	Effluent Grab	Pesticides	Imazalil	0.68 U	ng/L	0.68	3.4
4/29/2024 9:42	Effluent Grab	Pesticides	Naled	2.6 U	ng/L	2.6	13
4/29/2024 9:42	Effluent Grab	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.2
4/29/2024 9:42	Effluent Grab	Pesticides	Phenytoin	5.5 U	ng/L	5.5	28
4/29/2024 9:42	Effluent Grab	Pesticides	Pyraflufen Ethyl	0.31 U	ng/L	0.31	1.6
4/29/2024 9:42	Effluent Grab	Pesticides	Stirophos	0.42 U	ng/L	0.42	3.3
4/29/2024 9:42	Effluent Grab	Pesticides	Alachlor	0.42 U	ng/L	0.42	2.1
4/29/2024 9:42	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.6
4/29/2024 9:42	Effluent Grab	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Terbufos	0.21 U	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Bromacil	0.63 U	ng/L	0.63	3.1
4/29/2024 9:42	Effluent Grab	Pesticides	Demeton	3.7 U	ng/L	3.7	18
4/29/2024 9:42	Effluent Grab	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Dimethomorph	0.61 I	ng/L	0.31	1.6
4/29/2024 9:42	Effluent Grab	Pesticides	Iprodione	0.52 U	ng/L	0.52	2.6
4/29/2024 9:42	Effluent Grab	Pesticides	Metolachlor	0.78 U	ng/L	0.78	3.9
4/29/2024 9:42	Effluent Grab	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.2
4/29/2024 9:42	Effluent Grab	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
4/29/2024 9:42	Effluent Grab	Pesticides	Parathion Methyl	0.21 U	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Propanil	0.10 U	ng/L	0.10	0.52

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 9:42	Effluent Grab	Pesticides	Thiobencarb	0.52 U	ng/L	0.52	2.6
4/29/2024 9:42	Effluent Grab	Pesticides	Cyprodinil	0.21 U	ng/L	0.21	1.0
4/29/2024 9:42	Effluent Grab	Pesticides	Etridiazole	0.10 U	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.71	ng/L	0.10	0.52
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Chloroform	66	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Bromodichloromethane	22	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Dibromochloromethane	6.6	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
4/29/2024 9:42	Effluent Grab	Priority Organic Pollutants	Chloromethane	2.0 U	µg/L	2.0	8.0
4/29/2024 9:42	Effluent Grab	Nutrients	pH	6.88	SU		

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 9:42	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	95.9	%Sat		
4/29/2024 9:42	Effluent Grab	Nutrients	Temperature	28.1	C		
4/29/2024 9:42	Effluent Grab	Nutrients	Specific Conductance	1,082	µmhos/cm		
4/29/2024 10:00	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
4/29/2024 10:00	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
4/29/2024 10:00	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
4/29/2024 10:00	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
4/29/2024 10:00	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
4/29/2024 10:00	Field Blank	Metals	Iron	30 U	µg/L	30	120
4/29/2024 10:00	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
4/29/2024 10:00	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
4/29/2024 10:00	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
4/29/2024 10:00	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
4/29/2024 10:00	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
4/29/2024 10:00	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
4/29/2024 10:00	Field Blank	Nutrients	Sulfate	0.20 UJ	mg SO4/L	0.20	0.50
4/29/2024 10:00	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
4/29/2024 10:00	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
4/29/2024 10:00	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
4/29/2024 10:00	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
4/29/2024 10:00	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
4/29/2024 10:00	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
4/29/2024 10:00	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
4/29/2024 10:00	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
4/29/2024 10:00	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
4/29/2024 10:00	Field Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
4/29/2024 10:00	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
4/29/2024 10:00	Field Blank	Overflow	Cyanide	0.0060 UY	mg/L	0.0060	0.020
4/29/2024 10:00	Field Blank	Pesticides	EPTC	0.51 U	ng/L	0.51	2.6
4/29/2024 10:00	Field Blank	Pesticides	Ethion	0.31 U	ng/L	0.31	1.5
4/29/2024 10:00	Field Blank	Pesticides	Hexazinone	0.51 U	ng/L	0.51	2.6
4/29/2024 10:00	Field Blank	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 10:00	Field Blank	Pesticides	Metalaxyl	0.51 U	ng/L	0.51	2.6
4/29/2024 10:00	Field Blank	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
4/29/2024 10:00	Field Blank	Pesticides	Phenytoin	5.4 U	ng/L	5.4	27
4/29/2024 10:00	Field Blank	Pesticides	Atrazine	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Iprodione	0.51 U	ng/L	0.51	2.6
4/29/2024 10:00	Field Blank	Pesticides	Loratadine	0.31 U	ng/L	0.31	1.5
4/29/2024 10:00	Field Blank	Pesticides	Naled	2.6 U	ng/L	2.6	13
4/29/2024 10:00	Field Blank	Pesticides	Napropamide	0.72 U	ng/L	0.72	3.6
4/29/2024 10:00	Field Blank	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8
4/29/2024 10:00	Field Blank	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
4/29/2024 10:00	Field Blank	Pesticides	Propargite	0.82 U	ng/L	0.82	4.1
4/29/2024 10:00	Field Blank	Pesticides	Pyraflufen Ethyl	0.31 U	ng/L	0.31	1.5
4/29/2024 10:00	Field Blank	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.7
4/29/2024 10:00	Field Blank	Pesticides	Bromacil	0.62 U	ng/L	0.62	3.1
4/29/2024 10:00	Field Blank	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	15
4/29/2024 10:00	Field Blank	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Coumaphos	1.1 U	ng/L	1.1	5.6
4/29/2024 10:00	Field Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.64
4/29/2024 10:00	Field Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.1
4/29/2024 10:00	Field Blank	Pesticides	Pyridaben	1.4 U	ng/L	1.4	7.2
4/29/2024 10:00	Field Blank	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Thiobencarb	0.51 U	ng/L	0.51	2.6
4/29/2024 10:00	Field Blank	Pesticides	Fipronil Desulfinyl	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Fonofos	0.15 U	ng/L	0.15	0.77
4/29/2024 10:00	Field Blank	Pesticides	Pendimethalin	1.7 U	ng/L	1.7	8.7
4/29/2024 10:00	Field Blank	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.6
4/29/2024 10:00	Field Blank	Pesticides	Triadimefon	0.15 U	ng/L	0.15	0.77
4/29/2024 10:00	Field Blank	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.1
4/29/2024 10:00	Field Blank	Pesticides	Azoxystrobin	0.41 U	ng/L	0.41	2.1
4/29/2024 10:00	Field Blank	Pesticides	Dimethomorph	0.31 U	ng/L	0.31	1.5
4/29/2024 10:00	Field Blank	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.64
4/29/2024 10:00	Field Blank	Pesticides	Fenbuconazole	0.51 U	ng/L	0.51	2.6
4/29/2024 10:00	Field Blank	Pesticides	Fipronil Sulfide	0.10 U	ng/L	0.10	0.51

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 10:00	Field Blank	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.3
4/29/2024 10:00	Field Blank	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.1
4/29/2024 10:00	Field Blank	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Propiconazole	0.62 U	ng/L	0.62	3.1
4/29/2024 10:00	Field Blank	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
4/29/2024 10:00	Field Blank	Pesticides	Stirophos	0.41 U	ng/L	0.41	3.3
4/29/2024 10:00	Field Blank	Pesticides	Butylate	0.46 U	ng/L	0.46	2.3
4/29/2024 10:00	Field Blank	Pesticides	Fenamiphos	0.46 U	ng/L	0.46	2.3
4/29/2024 10:00	Field Blank	Pesticides	Fipronil Sulfone	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Cyanazine	5.1 U	ng/L	5.1	26
4/29/2024 10:00	Field Blank	Pesticides	Cyprodinil	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Metolachlor	0.77 U	ng/L	0.77	3.9
4/29/2024 10:00	Field Blank	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
4/29/2024 10:00	Field Blank	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.1
4/29/2024 10:00	Field Blank	Pesticides	Parathion Ethyl	0.15 U	ng/L	0.15	0.77
4/29/2024 10:00	Field Blank	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
4/29/2024 10:00	Field Blank	Pesticides	Sulfentrazone	1.4 U	ng/L	1.4	7.2
4/29/2024 10:00	Field Blank	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.6
4/29/2024 10:00	Field Blank	Pesticides	Carfentrazone Ethyl	0.15 U	ng/L	0.15	0.77
4/29/2024 10:00	Field Blank	Pesticides	Chlorfenapyr	0.31 U	ng/L	0.31	1.5
4/29/2024 10:00	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.5
4/29/2024 10:00	Field Blank	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.1
4/29/2024 10:00	Field Blank	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Difenoconazole	0.62 U	ng/L	0.62	3.1
4/29/2024 10:00	Field Blank	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Tebuconazole	1.4 U	ng/L	1.4	7.2
4/29/2024 10:00	Field Blank	Pesticides	Terbufos	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Azinphos Methyl	3.1 U	ng/L	3.1	15
4/29/2024 10:00	Field Blank	Pesticides	Caffeine	7.7 U	ng/L	7.7	39
4/29/2024 10:00	Field Blank	Pesticides	Carbophenothion	0.51 U	ng/L	0.51	2.6
4/29/2024 10:00	Field Blank	Pesticides	Etridiazole	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
4/29/2024 10:00	Field Blank	Pesticides	Demeton	3.6 U	ng/L	3.6	18
4/29/2024 10:00	Field Blank	Pesticides	Parathion Methyl	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Prometon	3.1 U	ng/L	3.1	15

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 10:00	Field Blank	Pesticides	Propanil	0.10 U	ng/L	0.10	0.51
4/29/2024 10:00	Field Blank	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.0
4/29/2024 10:00	Field Blank	Pesticides	Disulfoton	0.62 U	ng/L	0.62	3.1
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 U	µg/L	3.0	12
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	40
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Fluoranthene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Chloromethane	2.0 U	µg/L	2.0	8.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Acenaphthene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	8.1
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.40
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.40
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.1
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	40
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.1
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Isophorone	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.40
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.51 U	µg/L	0.51	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Chrysene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 UJ	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Anthracene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Fluorene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	µg/L	5.1	20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	0.010 U	µg/L	0.010	0.040
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.81
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 UJ	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	40
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.051 U	µg/L	0.051	0.20

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.025 U	µg/L	0.025	0.10
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.051 UJ	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Phenol	0.051 U	µg/L	0.051	0.20
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.0
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Field Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Chloromethane	2.0 U	µg/L	2.0	8.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
4/29/2024 10:00	Trip Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80