Effluent Quality Assessment of City of Clearwater Marshall Street WRF Pinellas County NPDES # FL0021857 Sampled March 15, 2021

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
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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 25
Appendix C. Chain of Custody 27
Appendix D. Chemical Analysis of Effluent and Receiving Water 30

List of Tables

Table 1. Measured field parameters 9
Table 2. Analytical water chemistry, microbiological, and toxicological 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 Discharge Location 5

Summary of Results

All analytes measured in the effluent grab and composite samples complied with Class III Water Quality Criteria for Marine Waters and effluent permit limits. The level of dibromochloromethane detected in the effluent grab sample was greater than the annual average Class III Water Quality Criterion for Marine Waters (Subsection 62-302.530(35)(b)(2)), F.A.C.) but complied with the effluent permit limit. The algal growth potential (AGP) results for the effluent grab sample suggest a potential for nutrient enrichment. Eighteen organic constituents were detected in the effluent grab sample.

Facility Overview

The City of Clearwater Marshall Street WRF is a domestic 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. Short Form Consent Order File No. 20-100 was executed on May 29, 2020 in response to sanitary sewer overflows and an unauthorized discharge of partially treated wastewater. The effluent is continuously discharged into Stevenson Creek [waterbody identification (WBID) 1567] which flows into Clearwater Harbor North (WBID 1528C), a Class III Marine Water (Figure 1).

Receiving waters for this facility fall under the Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria (NNC) for Clearwater North within the Clearwater Harbor/St. Joseph Sound region. For this region, the NNC, expressed as annual geometric means, are 0.05 mg/L total phosphorus, 0.61 mg/L total nitrogen, and 5.4 µg/L chlorophyll *a* (Paragraph 62-302.532(1)(a)(2), F.A.C.). For Class III predominantly marine waters, the daily average dissolved oxygen (DO) saturation shall not be below 42 percent in more than 10 percent of the values (Paragraph 62-302.533(2), 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 samples were taken as grab and 24-hour flow proportioned composite samples from monitoring site location EFD-01 for outfall D-001 on March 15, 2021 (Figure 1). Some permit limits apply to monitoring site EFA-01 and are included in the tables for informational purposes only. There is an effluent permit limit for dissolved oxygen in mg/L; this parameter was only reported in percent saturation. The permit requires chronic whole effluent toxicity testing and acute definitive tests were scheduled and performed.

Samples were collected by Brianna Godwin, Emily Larson, Margaret Dorge, and Lance Kautz (Southwest District Office). Analyses were performed by DOH Tampa, Eurofins Test America Laboratories in Tampa, 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 Rule 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.

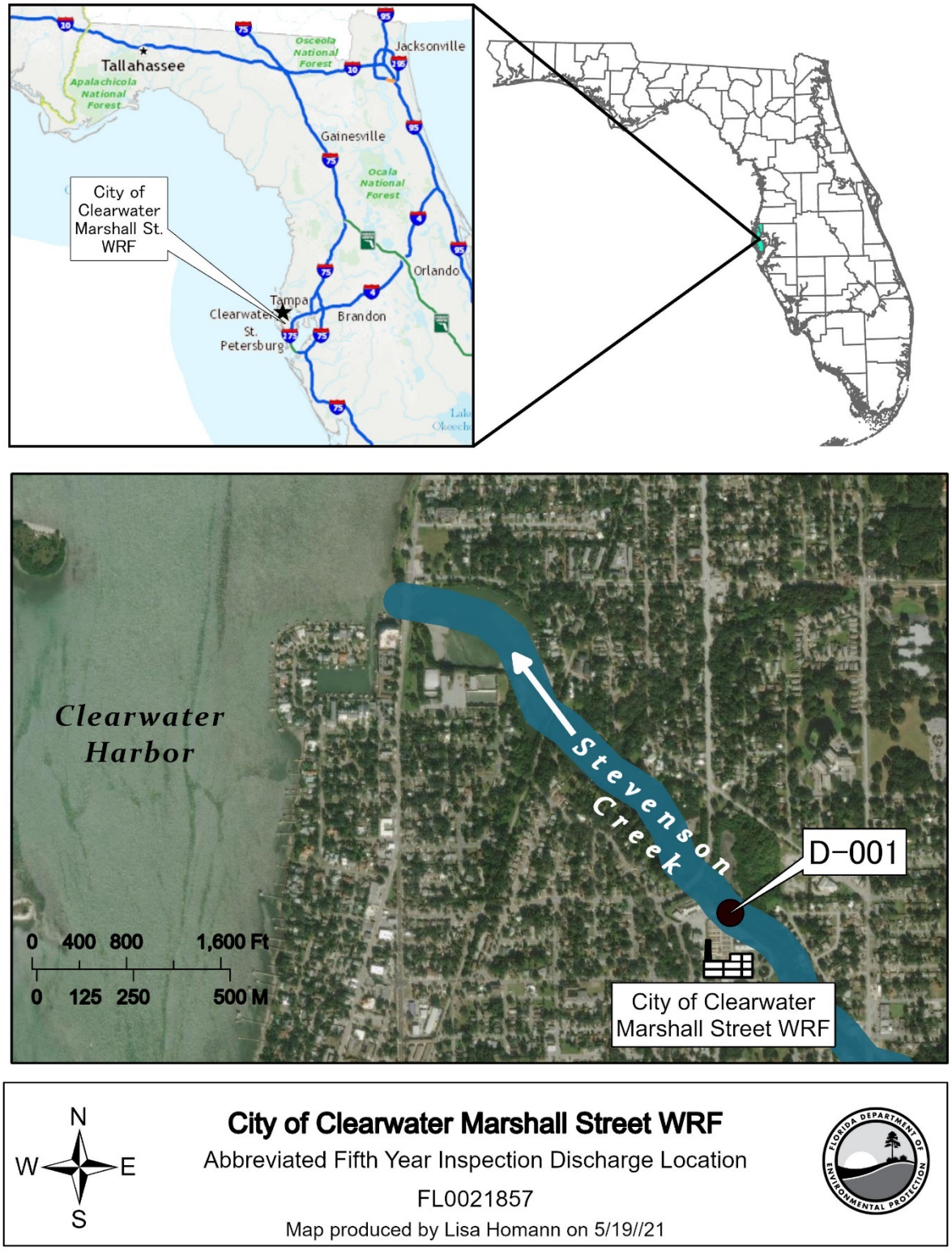


Figure 1. Map of Facility and Discharge Location

Results

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

- All measured effluent water quality parameters complied with Class III Water Quality Criteria for Marine Waters and effluent permit limits.

Analytical Water Chemistry (See Table 2 and Appendix D)

- All water chemistry analytes detected in the effluent grab and composite samples complied with Class III Water Quality Criteria for Marine Waters and effluent permit limits.

- For comparative purposes only, the effluent composite single sample values for total phosphorus and total nitrogen were greater than the Estuary-Specific NNC annual geometric mean values for the region.

- Total organic carbon was detected in the field blank between the method detection limit (MDL) and practical quantitation limit (PQL).

Microbiology (See Table 2 and Appendix B)

- Fecal indicator bacteria were not detected in the effluent grab sample and therefore complied with the enterococci Class III Water Quality Criterion for Marine Waters and the fecal coliform and enterococci effluent permit limits.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed March 16 through March 20, 2021.

- The sample was aerated for 15 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 10.8 mg/L to 8.7 mg/L.

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

- For the 96-hour acute definitive test, the calculated LC50 for the water flea, *Ceriodaphnia dubia*, was > 100% effluent with 5% mortality in 100% sample. The calculated LC50 for the fish, *Pimephales promelas*, was > 100% effluent with 5% mortality in 100% sample. The effluent sample was not toxic to either test species during the 96-hour acute definitive bioassays. The chronic whole effluent toxicity test required in the permit was not performed.

- The result for the *Pimephales promelas* bioassay was qualified due to hold time exceedance caused by the timing of the fish delivery.

- 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 Marine 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,* and the marine species, *Dunaliella tertiolecta*, were used to determine the AGP values in the effluent grab sample. Nitrogen to phosphate (N:P) ratios could not be calculated because nutrient values were not measured in the effluent grab sample.

- The effluent grab sample AGP result of 65.0 mg dry wt/L is greater than the AGP range (6.10 to 20.0 mg dry wt/L) suggested to be representative of high productivity for freshwater (Miller et al. 1978).

- An aliquot of the AGP sample was salinity adjusted from an apparent salinity of approximately 0.771 parts per thousand (ppth) to a salinity of approximately 7.2 ppth by the addition of artificial sea salts to meet the salinity requirements of the test species *Dunaliella tertiolecta*.

- The salinity adjusted effluent sample AGP is 22.3 mg dry wt/L. Raschke and Shultz (1987) determined that AGP values above 10.0 mg dry weight/L, which represents a "problem" threshold for marine receiving waters, imply nutrient enrichment.

Organic Constituents (See Table 5 and Appendix D)

- Atrazine, atrazine desethyl, azoxystrobin, caffeine, fipronil desulfinyl, fipronil sulfide, fludioxonil, flutolanil, fluxapyroxad, oxadiazon, propiconazole, simazine, sulfentrazone, tebuconazole, bromodichloromethane, bromoform, chloroform, and dibromochloromethane were detected in the effluent grab sample.

- Dibromochloromethane level in the effluent grab sample was greater than the annual average limit for Class III Water Quality Criteria for Marine Waters (Subsection 62-302.530(35)(b)(2)), F.A.C.) but complied with the effluent permit limit.

- Bromodichloromethane levels in the effluent grab sample complied with Class III Water Quality Criteria for Marine Waters and the effluent permit limit.

- Oxadiazon was detected in the blank between the MDL and PQL.

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.

Raschke, R.L. and Schultz, D.A. 1987. The use of the algal growth potential test for data assessment. Journal Water Pollution Control Federation.

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 Marine Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFD-01
Sample Depth	ft	-	-	1
Temperature	C	-	-	25.1
pH	SU	6.5 - 8.5	6.5 - 8.5 s (EFA-01)	8.1
Specific Conductance	µmhos/cm	-		1,864
Dissolved Oxygen	% saturation	≥ 42	-	107.3
Total Residual Chlorine	mg/L	≤ 0.01	≤ 0.01 s	0.01 U [1]

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
s - Single sample
U - Material analyzed for but not detected; value reported is the method detection limit
1 - Measurement provided by the facility

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

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFD-01	Effluent Composite EFD-01
Ortho-phosphate	mg P/L	-	-	0.45	-
Total Phosphorus	mg P/L	≤ 0.05 g	≤ 2.0 s p (EFA-01)	-	0.38
Total Ammonia	mg N/L	-	-	-	0.036
Nitrate and Nitrite	mg N/L	-	-	-	0.37
Total Kjeldahl Nitrogen	mg N/L	-	-	-	0.93
Organic Nitrogen	mg N/L	-	-	-	0.89 c
Total Nitrogen	mg N/L	≤ 0.61 g	≤ 6.0 s p (EFA-01)	-	1.3 c
Total Organic Carbon [2]	mg C/L	-	-	-	6.8
Chlorophyll *a* - Corrected	µg/L	≤ 5.4 g	-	0.82 U	-
Phaeophytin	µg/L	-	-	0.90 U	-
CBOD, 5 day, N - inhibited	mg/L	-	≤ 10.0 s p (EFA-01)	-	2 QU
Hardness	mg CaCO3/L	-	-	246 c	-
Total Suspended Solids	mg/L	-	≤ 10.0 s p (EFA-01)	-	2 U
Turbidity	NTU	≤ 29 t	-	1.1	-
Color (true)	PCU	-	-	9.5	-
Alkalinity	mg CaCO3/L	-	-	142	-
Chloride	mg Cl/L	-	-	400	-
Fluoride	mg F/L	≤ 5.0	-	0.75	-
Sulfate	mg SO4/L	-	-	110	-
Fecal Coliforms	cfu/100 mL	-	≤ 25 s (EFA-01)	2 U	-
Enterococci	cfu/100 mL	≤ 130	≤ 276 s (EFA-01)	2 U	-
Bioassay - Water flea *(Ceriodaphnia dubia)*	% effluent	-	≥ 100 s p	-	> 100
Bioassay - Fish *(Pimephales promelas)*	% effluent	-	≥ 100 s p	-	> 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
t - Shall not exceed 29 NTUs above background
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
2 - Analyte detected in the blank

Table 3. Analytical metals data

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Aluminum	µg/L	≤ 1,500	-	39
Arsenic	µg/L	≤ 50	-	1.65
Cadmium	µg/L	≤ 8.8	-	0.020 U
Calcium	mg/L	-	-	66.6
Chromium, Total	µg/L	≤ 50 [3]	-	0.40 U
Copper	µg/L	≤ 3.7	-	1.60
Iron	µg/L	≤ 300	-	63 I
Lead	µg/L	≤ 8.5	-	0.20 U
Magnesium	mg/L	-	-	19.3
Nickel	µg/L	≤ 8.3	-	0.89 I
Potassium	mg/L	-	-	17.9
Selenium	µg/L	≤ 71	-	0.20 U
Silver	µg/L	≤ 2.3	-	0.010 U
Sodium	mg/L	-	-	266
Zinc	µg/L	≤ 86	-	43

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
U - Material analyzed for but not detected; value reported is the method detection limit
3 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI

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*	64.0 A	-	190 ± 39	-	-	-	-
Effluent Grab	*Dunaliella tertiolecta*	22.3 A *	not applicable [4]	not applicable [4]	not applicable [4]	not applicable [4]	-	-
Effluent Grab	*Pseudokirchneriella subcapitata*	65.0	-	190 ± 39	-	-	-	-

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

* - sample salinity adjusted to 7.2 ppth

4 - predictions not applicable to marine matrix

Table 5. Detected Organic Constituents

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Atrazine	ng/L	-	-	18
Atrazine Desethyl	ng/L	-	-	4.0 I
Azoxystrobin	ng/L	-	-	12
Caffeine	ng/L	-	-	12 IJ
Fipronil Desulfinyl	ng/L	-	-	0.34 I
Fipronil Sulfide	ng/L	-	-	1.7
Fludioxonil	ng/L	-	-	0.56
Flutolanil	ng/L	-	-	0.67
Fluxapyroxad	ng/L	-	-	0.97
Oxadiazon [2]	ng/L	-	-	0.36 IQ
Propiconazole	ng/L	-	-	2.3
Simazine	ng/L	-	-	1.0 I
Sulfentrazone	ng/L	-	-	5.1
Tebuconazole	ng/L	-	-	15
Bromodichloromethane	µg/L	≤ 22 a	≤ 43 a	18
Bromoform	µg/L	≤ 360 a	-	29
Chloroform	µg/L	≤ 470.8 a	-	9.4
Dibromochloromethane	µg/L	≤ 34 a	≤ 56 a	41 e

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

e - Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average

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

J - Estimated value

Q - Sample held beyond normal holding time

2 - Analyte detected in the blank

Appendix A. Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Margaret Dorge	**Contact Number:** (813) 470-5703
Facility Name (as it appears on permit): City of Clearwater Marshall Street WRF	**Former Names:** N/A
NPDES Permit Number: FL0021857	**Permit Expiration Date:** February 1, 2022
Physical Address: 1605 Harbor Drive Clearwater, FL 33755	
District: Southwest	**County:** Pinellas
Function of Facility: Wastewater Treatment Facility	
Facility Type: Domestic Wastewater	**Permitted Capacity (MGD):** 10.0
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): From 02/01/2020 to 01/01/2021: D-001: 2.3 MGD	
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** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify**	

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

Surface Water Sample Locations (D-001)

Monitoring Site Number	Description of Monitoring Site
FLW-02	Flow measured with rectangular weir and sonic meter
EFA-01	After disinfection
EFB-01	After filtration and prior to disinfection
EFD-01	After dechlorination and prior to final discharge.

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 10.0 MGD Annual Average Daily Flow (AADF) discharge into the Class III Marine waters of Stevenson Creek, WBID 1567. Stevenson Creek flows into WBID 1528C of Clearwater Harbor (North), Class III Marine waters. The outfall is approximately 20 feet in length and discharges at a depth of approximately 4 feet. The discharge D-001 is located approximately at latitude 27º58' 55" N, longitude 82º47' 12" W.

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

An existing 10.0 MGD Annual Average Daily Flow (AADF) Type I domestic advanced wastewater treatment facility (AWWTF), using the Bardenpho BNR process, consisting of the following components: An on-site influent pumping station with three variable rate dry-pit pumps; preliminary treatment consisting of two mechanically-cleaned fine bar screens, a three unit vortex-cyclonic grit removal system with associated grit classifier, influent flow measurement via a 36-inch magnetic flow meter; two Salsnes SF 6000 filters 1736 gpm each; a biological treatment process consisting of a five-stage Bardenpho BNR process (capable and currently operating as a four-stage Bardenpho BNR process) that includes three 250,000 gallon fermentation basins (operated as first anoxic reactors in a four-stage configuration), three 333,000 gallon first anoxic reactors, 13 aeration basins (three 363,000 gallon basins each and ten 127,000 gallon basins each), four 280,000 gallon second anoxic basins, and four 63,000 gallon re-aeration basins; four 100-foot diameter secondary clarifiers; four return activated sludge pumps; an intermediate effluent pumping station using six submersible pumps; polishing filtration consisting of 12 rapid sand, filtration gravity-type, automatic backwash filters with a total surface area of 4,320 square feet; and, an effluent high-rate disinfection system using sodium hypochlorination and a dual channel chlorine contact basin with one 157,000 gallon channel and one 182,000 gallon channel. Also on-site is a 5 MG reclaimed water storage tank and accompanying high service pumps.

Chlorinated effluent from the chlorine contact basin is directed to the Master Reuse System (R-001) or to a 186,000 gallon dual channel de-chlorination / re-aeration basin that uses sodium bisulfite to eliminate the remaining chlorine residual and boost the dissolved oxygen in the effluent and finally through a 48-inch diameter outfall pipe that discharges to Stevenson Creek, 20 feet from shore (D-001) as described below.

Waste Sludge from the primary filters is pumped to a 1,290,000 gallon anaerobic digester. Waste sludge from the secondary clarifiers is pumped to two 75 gpm rotary drum thickeners equipped with polymer injection. The thickened waste sludge is pumped to the anaerobic digester. The sludge from the anaerobic digester is then directed to a single 130,000 gallon sludge blending / storage tank. The digested sludge is dewatered using a 150 gpm centrifuge and a two-meter 200 gpm belt filter press as backup.

MODIFICATION:

Installation of new tank cover, mixer, elevated walkway with stairs, elevated sludge pump pad, new Belt Filter Press Magnetic Flow Meter, new truck off-loading connection and associated process piping, associated drain piping, electrical, lighting, and SCADA improvements. Replacement of the two Dewatering Feed Pumps and the Recirculation Pump with three Dewatering Feed Pumps and dual Recirculation/Truck Off-Loading Pump.

AFTER MODIFICATION:

An existing 10.0 MGD Annual Average Daily Flow (AADF) Type I domestic advanced wastewater treatment facility (AWWTF), using the Bardenpho BNR process, consisting of the following components: An on-site influent pumping station with three variable rate dry-pit pumps; preliminary treatment consisting of two mechanically-cleaned fine bar screens, a three unit vortex-cyclonic grit removal system with associated grit classifier, influent flow measurement via a 36-inch magnetic flow meter; two Salsnes SF 6000 filters 1736 gpm each; a biological treatment process consisting of a five-stage Bardenpho BNR process (capable and currently operating as a four-stage Bardenpho BNR process) that includes three 250,000 gallon fermentation basins (operated as first anoxic reactors in a four-stage configuration), three 333,000 gallon first anoxic reactors, 13 aeration basins (three 363,000 gallon basins each and ten 127,000 gallon basins each), four 280,000 gallon second anoxic basins, and four 63,000 gallon re-aeration basins; four 100-foot diameter secondary clarifiers; four return activated sludge pumps; an intermediate effluent pumping station using six submersible pumps; polishing filtration consisting of 12 rapid sand, filtration gravity-type, automatic backwash filters with a total surface area of 4,320 square feet; and, an effluent high-rate disinfection system using sodium hypochlorination and a dual channel chlorine contact basin with one 157,000 gallon channel and one 182,000 gallon channel. Also on-site is a 5 MG reclaimed water storage tank and accompanying high service pumps.

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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)

D-001:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	10.0 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-02	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	5.0 6.25 7.5	Annual Average Monthly Average Weekly Average	Monthly	Calculated	EFA-01	
BOD, Carbonaceous 5 day, 20C	mg/L	Max	10.0	Single Sample	5 Days/Week	24-hr FPC	EFA-01	
Solids, Total Suspended	mg/L	Max Max Max	5.0 6.25 7.5	Annual Average Monthly Average Weekly Average	Monthly	Calculated	EFA-01	
Solids, Total Suspended	mg/L	Max	10.0	Single Sample	5 Days/Week	24-hr FPC	EFA-01	
Nitrogen, Total	mg/L	Max Max Max	3.0 3.75 4.5	Annual Average Monthly Average Weekly Average	Monthly	Calculated	EFA-01	
Nitrogen, Total	mg/L	Max	6.0	Single Sample	5 Days/Week	24-hr FPC	EFA-01	
Phosphorus, Total (as P)	mg/L	Max Max Max	1.0 1.25 1.5	Annual Average Monthly Average Weekly Average	Monthly	Calculated	EFA-01	
Phosphorus, Total (as P)	mg/L	Max	2.0	Single Sample	5 Days/Week	24-hr FPC	EFA-01	

Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Daily; 24 hours	Grab	EFB-01	
pH	s.u.	Min Max	6.5 8.5	Single Sample Single Sample	Continuous	Meter	EFA-01	See I.A.3
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	Monthly	Calculated	EFA-01	See I.A.5
Coliform, Fecal	#/100mL	Max	25	Single Sample	Daily; 24 hours	Grab	EFA-01	See I.A.5
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-01	See I.A.3 & I.A.6
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Daily; 24 hours	Grab	EFD-01	
Enterococci	#/100mL	Max	35	Monthly Geometric Mean	Monthly	Calculated	EFA-01	See I.A.7
Enterococci	#/100mL	Max	276	Single Sample	5/Month	Grab	EFA-01	See I.A.7
Dichlorobromomethane	µg/L	Max	Report	Single Sample	Monthly	Grab	EFD-01	
Dichlorobromomethane	µg/L	Max	43	Annual Average	Monthly	Calculated	EFD-01	
Dibromochloromethane	µg/L	Max	Report	Single Sample	Monthly	Grab	EFD-01	
Dibromochloromethane	µg/L	Max	56	Annual Average	Monthly	Calculated	EFD-01	
Oxygen, Dissolved, (DO)	mg/L	Min	5.0	Single Sample	Daily; 24 hours	Grab	EFD-01	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFD-01	See I.A.8
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFD-01	See I.A.8
Nitrogen, Total	ton/yr	Max	16.75	Annual Total	Monthly	Calculated	EFA-01	See I.A.10
Nitrogen, Total	ton/mn	Max	Report	Monthly Total	Monthly	Calculated	EFA-01	See I.A.10
BOD, Carbonaceous 5 day, 20C	ton/mn	Max	Report	Monthly Total	Monthly	Calculated	EFA-01	See I.A.11
BOD, Carbonaceous 5 day, 20C	lb/yr	Max	76,157.0	Annual Average	Monthly	Calculated	EFA-01	See I.A.11

PART I: Continued

Receiving Waters:	**Classification (indicate whether fresh or marine):**
Stevens Creek then into Clearwater Harbor (North)	Class III Marine waters (WBID No. 1567) and Class III Marine waters (WBID No. 1528C)

Chronic Whole Effluent Toxicity Testing

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.8.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.8.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.

f. 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.

(2) 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.

(3) 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.

(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(5) The same bioassay data shall not be reported as the results of more than one test.

(6) All bioassay laboratory reports shall be sent to:

Florida Department of Environmental Protection
Southwest District Office
13051 N Telecom Pkwy,
Temple Terrace, Florida 33637-0926
Phone Number - (813) 470-5700
FAX Number - (813) 470-5996
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.8.a.(1).
(2) Additional Follow-up Tests:
(a) If a routine test does not meet the chronic toxicity limitation in I.A.8.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.8.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.8.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.8.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.8.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.8.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 No. 20-100 was executed on May 29, 3030. The Department sought $37,600.00 in civil penalties, $7,592.64 in economic benefit, and $250.00 for costs and expenses which amounts to a total of $53,842.64. The Facility had a 40,800 gallons sanitary sewer overflows that entered surface water and an unauthorized discharge of 3.0 million gallons of partially treated wastewater to Stevenson creek.

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:

Monitoring Site	Date	Monitoring	Description	Result	Limit	Units	Statistical Base
D-001	01/31/2021	EFD-01	Dibromochloromethane	58.6	56.0	µg/L	AB-Annual Average
D-001	12/31/2020	EFD-01	Dibromochloromethane	59.5	56.0	µg/L	AB-Annual Average
D-001		EFD-01	Dibromochloromethane	58.9	56.0	µg/L	AB-Annual Average
D-001		EFD-01	Dibromochloromethane	58.3	56.0	µg/L	AB-Annual Average
D-001		EFD-01	Dibromochloromethane	56.5	56.0	µg/L	AB-Annual Average

Describe previous FYI and WQBEL study:
N/A

Describe previous or current Enforcement Actions (including WLs):

1. Short Form Consent Order OGC File No. 18-0076 executed on 2/26/2018 for unauthorized discharged. Enforcement project closed on September 19, 2018.
2. Short Form Consent Order OGC File No. 20-0100 executed on 05/29/2020 for unauthorized discharged. Enforcement case is still open for an in-kind project.
3. WL19-91DW52SWD sent on September 18, 2019 for unauthorized discharges and sanitary sewer overflows.
4. WL20-163DW52SWD sent on October 15, 2020 for total suspended solid exceedances.
5. WL21-11DW52SWD sent on February 11, 2021 for unauthorized discharges and sanitary sewer overflows.

Describe any violations or problems noted in previous inspection:

10/02/2019 CEI/SSOP: The facility reported the following exceedances from July 2018 through October 2019.

Monitoring Group	Date	Monitoring Location	Parameter	Description	Result	Limit	Units	Statistical Base
D-001	8/31/2019	EFA-01	P 00665	Phosphorus, Total (as P)	4.1	2.0	mg/L	MB - Maximum
D-001	8/31/2019	EFA-01	P 50060	Chlorine, Total Residual	0.6	1.0	mg/L	ME - Minimum
D-001	12/31/2018	EFA-01	P 51005	Coliform, Fecal, % less than detection	55	75.0	percent	TM - Minimum Total Monthly

Discuss whether DMR trends within previous five years are improving or declining:

D-001: EFD-01 and EFA-01

BOD, Carbonaceous 5 day, 20c exceedances occurred November 2017, January 2018, and March 2018. This appears to be abnormal occurrences. No additional trending.

Total chorine residual exceedance occurred on September 2018. This appears to be an abnormal occurrence. No additional trending.

Fecal Coliform exceedance occurred on July 2016, October 2016, and December 2017. This appears to be abnormal occurrences and isolated events. No additional trending.

Total Nitrogen exceedance occurred consistently from December 2017 – October 2018 for the annual total which

eventually trended downward. The exceedances were addressed in consent order OGC File No. 18-1197. Other exceedances occurred on March 2016 and December 2020. This appears to be abnormal occurrences and isolated events. No additional trending.

Total suspended solids exceedance occurred for three consecutive months from May through July 2017. The exceedances were addressed in consent order OGC File No. 18-1197. Other exceedances occurred August 2015 and December 2017. This appears to be abnormal occurrences and isolated events. No additional trending.

IC25 Statre 7day Chr Ceriodaphnia exceedance occurred from May through July 2019. The exceedances were addressed in a Toxicity Corrective Action Plan that was closed on December 23, 2020. Other exceedances occurred April 2015, May 2018, and November 2018. This appears to be abnormal occurrences and isolated events. No additional trending.

IC25 Statre 7Day Chr Pimephales exceedance occurred on April 2015. This appears to be an abnormal occurrence and an isolated event. No additional trending.

Flow exceedance occurred on August 2019, October – December 2019, and January 2020. This appears to be abnormal occurrence and an isolated event. No additional trending.

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 (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.

- **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 be 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-2021-03-08-19

FYI3 FL0021857 Clearwater City of Marshall Street WRF Sampling Inspection

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: Elaine Ignacio
Collected By: B. Godwin, E. Larson, M. Doty, L. Kautz
Field Report Prepared By: Lance Kautz
Sampling Agency: FDEP – SWD

Location: EFD-01	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 3/14/21 Time 12:00a	Eastern / Central	Composite end Date 3/15/21 Time 1:00a	Bottle Group(s) (See pg 2): B
Field ID: Clearwater - ~~grab~~ composite	Matrix (type, e.g., Salt, Fresh, etc): Fresh	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: ~~samples~~ split + bottled: 3/15/21	
Location: EFD-01	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/15/21 Time 11:00	Eastern / Central	Composite end Date Time	Bottle Group(s): A
Field ID: Clearwater - grab	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen 107.3 ☐ 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: N/A	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/15/21 Time 10H15	Eastern / Central	Composite end Date Time	Bottle Group(s): C
Field ID: Field Blanks	Matrix (type, e.g., Salt, Fresh, etc): Fresh	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: N/A	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern / Central	Composite end Date Time	Bottle Group(s): D
Field ID: Trip Blanks	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
Lance Kautz	3/15/21 / 5:00p	FEDEX	6	IM	3/16/21 10:40

Request Number: RQ-2021-03-08-19

FYI3 FL002 1857 Clearwater City of Marshall Street WRF Sampling Inspection

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: Elaine Ignacio

Field Report Prepared By:

Collected By:

Sampling Agency:

Location: EFD-01	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 3/14/21 Time 12:00a	Eastern / Central	Composite end Date 3/15/21 Time 1:00a					Bottle Group(s) (See pg 2): E
Field ID: Clearwater - composite	Matrix (type, e.g., Salt, Fresh, etc): Fresh			Diss. Oxygen: 10.73	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)			
WIN/STORET #	Temp (C): 25.1	pH: 8.06		Sample Depth: 1	☐ ft ☐ m	Sp. Conductance (umho/cm): 1,864			
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						
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
					3/16/21 0857

Page 15 of 17

3/31/2021 (Rev. 1)

Mission:
To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.

Florida HEALTH

Vision: To be the **Healthiest State** in the Nation

NON-POTABLE WATER ENVIRONMENTAL MICROBIOLOGY CHAIN OF CUSTODY FORM

System Name: Clearwater RQ 20210308 19				**Collector:** Lanco Kautz	
				Transporter: Lanco Kautz	
Station #	**Location**	**Date**	**Time**	**Sample Type**	**Analysis Required**
EFD-01	Clearwater - MS	3/15/21	11:00a	WW	FC/ENT
Relinquished by: Lanco Kautz		**Received by:** Carolyn Tews		**Date** 3/15	**Time** 12:20
Method of shipment:					

Stored in Refrigerator S/N:	**Date and Beginning Time**	**Date and End Time**
Tech: C. Tales		
Set up by: C. Tales		
Water Bath S/N: 2001853 / 60101232	3/15/21 1:00	3/15/21 1:35
Ready By: C. Tales	~~3/15/21~~ 3/16/21 1:30	3/16/21 1:40
Reported By C-Tews		
Approved by	~~3/16/21~~ error fix	3/16/21 @ 3:53 PM

BOL-T EM007B (10/15/20)

Appendix D. Chemical Analysis of Effluent and Receiving Water

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 11:00	Effluent Grab	AGP/LN	Algal Growth Potential	65.0	mg DryWt/L	0.300	0.900
3/15/2021 11:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.82 U	µg/L	0.82	2.5
3/15/2021 11:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	0.89 I	µg/L	0.60	1.8
3/15/2021 11:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 U	µg/L	0.90	2.7
3/15/2021 11:00	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	2 U	cfu/100 mL	2	2
3/15/2021 11:00	Effluent Grab	Overflow	Enterococci-Membrane Filter	2 U	cfu/100 mL	2	2
3/15/2021 11:00	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Metals	Potassium	17.9	mg/L	0.30	1.2
3/15/2021 11:00	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
3/15/2021 11:00	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
3/15/2021 11:00	Effluent Grab	Metals	Calcium	66.6	mg/L	0.075	0.30
3/15/2021 11:00	Effluent Grab	Metals	Zinc	43	µg/L	5.0	20
3/15/2021 11:00	Effluent Grab	Metals	Arsenic	1.65	µg/L	0.050	0.20
3/15/2021 11:00	Effluent Grab	Metals	Sodium	266	mg/L	2.5	10
3/15/2021 11:00	Effluent Grab	Metals	Iron	63 I	µg/L	30	120
3/15/2021 11:00	Effluent Grab	Metals	Copper	1.60	µg/L	0.40	0.80
3/15/2021 11:00	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
3/15/2021 11:00	Effluent Grab	Metals	Aluminum	39	µg/L	5.0	20
3/15/2021 11:00	Effluent Grab	Metals	Nickel	0.89 I	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
3/15/2021 11:00	Effluent Grab	Metals	Magnesium	19.3	mg/L	0.040	0.16
3/15/2021 11:00	Effluent Grab	Nutrients	Turbidity	1.1	NTU	0.10	0.13
3/15/2021 11:00	Effluent Grab	Nutrients	O-Phosphate-P	0.45	mg P/L	0.0080	0.020
3/15/2021 11:00	Effluent Grab	Nutrients	Color (true)	9.5	PCU	2.5	6.0
3/15/2021 11:00	Effluent Grab	Nutrients	Sulfate	110	mg SO4/L	2.0	5.0
3/15/2021 11:00	Effluent Grab	Nutrients	Total Alkalinity	142	mg CaCO3/L	0.65	2.5
3/15/2021 11:00	Effluent Grab	Nutrients	Fluoride	0.75	mg F/L	0.035	0.10
3/15/2021 11:00	Effluent Grab	Nutrients	Chloride	400	mg Cl/L	2.0	5.0
3/15/2021 11:00	Effluent Grab	Pesticides	Sucralose	82	µg/L	0.10	0.40
3/15/2021 11:00	Effluent Grab	Pesticides	Atrazine Desethyl	4.0 I	ng/L	1.6	6.3

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 11:00	Effluent Grab	Pesticides	Bromacil	0.53 U	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.26 U	ng/L	0.26	1.1
3/15/2021 11:00	Effluent Grab	Pesticides	Demeton	1.6 U	ng/L	1.6	6.3
3/15/2021 11:00	Effluent Grab	Pesticides	EPTC	1.3 U	ng/L	1.3	5.3
3/15/2021 11:00	Effluent Grab	Pesticides	Fenamiphos	0.53 U	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Flutolanil	0.67	ng/L	0.11	0.42
3/15/2021 11:00	Effluent Grab	Pesticides	Fonofos	0.21 U	ng/L	0.21	0.84
3/15/2021 11:00	Effluent Grab	Pesticides	Myclobutanil	0.26 U	ng/L	0.26	1.1
3/15/2021 11:00	Effluent Grab	Pesticides	Pyriproxyfen	0.13 U	ng/L	0.13	0.53
3/15/2021 11:00	Effluent Grab	Pesticides	Simazine	1.0 I	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Sulfentrazone	5.1	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Molinate	0.32 U	ng/L	0.32	1.3
3/15/2021 11:00	Effluent Grab	Pesticides	Ametryn	0.63 U	ng/L	0.63	2.5
3/15/2021 11:00	Effluent Grab	Pesticides	Fenbuconazole	0.13 U	ng/L	0.13	0.53
3/15/2021 11:00	Effluent Grab	Pesticides	Fipronil Sulfide	1.7	ng/L	0.16	0.63
3/15/2021 11:00	Effluent Grab	Pesticides	Fluxapyroxad	0.97	ng/L	0.11	0.42
3/15/2021 11:00	Effluent Grab	Pesticides	Metalaxyl	0.79 U	ng/L	0.79	3.2
3/15/2021 11:00	Effluent Grab	Pesticides	Imazalil	0.79 U	ng/L	0.79	3.2
3/15/2021 11:00	Effluent Grab	Pesticides	Mevinphos	1.1 U	ng/L	1.1	4.4
3/15/2021 11:00	Effluent Grab	Pesticides	Norflurazon	0.53 U	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Acetochlor	0.26 U	ng/L	0.26	1.1
3/15/2021 11:00	Effluent Grab	Pesticides	Atrazine	18	ng/L	0.26	1.1
3/15/2021 11:00	Effluent Grab	Pesticides	Butylate	0.42 U	ng/L	0.42	1.7
3/15/2021 11:00	Effluent Grab	Pesticides	Caffeine	12 IJ	ng/L	7.9	32
3/15/2021 11:00	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.11 U	ng/L	0.11	0.42
3/15/2021 11:00	Effluent Grab	Pesticides	Difenoconazole	0.63 U	ng/L	0.63	2.5
3/15/2021 11:00	Effluent Grab	Pesticides	Dithiopyr	0.18 UJ	ng/L	0.18	0.74
3/15/2021 11:00	Effluent Grab	Pesticides	Malathion	0.37 U	ng/L	0.37	1.5
3/15/2021 11:00	Effluent Grab	Pesticides	Metolachlor	0.37 U	ng/L	0.37	1.5
3/15/2021 11:00	Effluent Grab	Pesticides	Parathion Ethyl	0.26 U	ng/L	0.26	1.1
3/15/2021 11:00	Effluent Grab	Pesticides	Prometon	0.95 UJ	ng/L	0.95	3.7
3/15/2021 11:00	Effluent Grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
3/15/2021 11:00	Effluent Grab	Pesticides	Azinphos Methyl	2.1 U	ng/L	2.1	8.4
3/15/2021 11:00	Effluent Grab	Pesticides	Ethion	0.16 U	ng/L	0.16	0.63

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 11:00	Effluent Grab	Pesticides	Fipronil	0.26 U	ng/L	0.26	1.1
3/15/2021 11:00	Effluent Grab	Pesticides	Oxadiazon	0.36 IQ	ng/L	0.33	1.3
3/15/2021 11:00	Effluent Grab	Pesticides	Oxyfluorfen	0.16 U	ng/L	0.16	0.63
3/15/2021 11:00	Effluent Grab	Pesticides	Prodiamine	0.18 U	ng/L	0.18	0.74
3/15/2021 11:00	Effluent Grab	Pesticides	Terbuthylazine	0.45 U	ng/L	0.45	1.8
3/15/2021 11:00	Effluent Grab	Pesticides	Azoxystrobin	12	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.53
3/15/2021 11:00	Effluent Grab	Pesticides	Ethoprop	0.11 U	ng/L	0.11	0.42
3/15/2021 11:00	Effluent Grab	Pesticides	Fludioxonil	0.56	ng/L	0.13	0.53
3/15/2021 11:00	Effluent Grab	Pesticides	Flumioxazin	1.8 U	ng/L	1.8	7.4
3/15/2021 11:00	Effluent Grab	Pesticides	Hexazinone	0.53 U	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Naled	1.6 U	ng/L	1.6	6.3
3/15/2021 11:00	Effluent Grab	Pesticides	Ibuprofen	0.020 U	µg/L	0.020	0.080
3/15/2021 11:00	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.053 U	ng/L	0.053	0.21
3/15/2021 11:00	Effluent Grab	Pesticides	Disulfoton	0.53 U	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Metribuzin	3.4 U	ng/L	3.4	14
3/15/2021 11:00	Effluent Grab	Pesticides	Parathion Methyl	0.58 U	ng/L	0.58	2.3
3/15/2021 11:00	Effluent Grab	Pesticides	Phorate	0.55 U	ng/L	0.55	2.2
3/15/2021 11:00	Effluent Grab	Pesticides	Prometryn	0.21 U	ng/L	0.21	0.84
3/15/2021 11:00	Effluent Grab	Pesticides	Propiconazole	2.3	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Tebuconazole	15	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Terbufos	0.11 U	ng/L	0.11	0.42
3/15/2021 11:00	Effluent Grab	Pesticides	Alachlor	0.26 U	ng/L	0.26	1.1
3/15/2021 11:00	Effluent Grab	Pesticides	Carbophenothion	0.53 U	ng/L	0.53	2.1
3/15/2021 11:00	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.34 I	ng/L	0.13	0.53
3/15/2021 11:00	Effluent Grab	Pesticides	Iprodione	0.63 U	ng/L	0.63	2.5
3/15/2021 11:00	Effluent Grab	Pesticides	Pendimethalin	1.1 U	ng/L	1.1	4.2
3/15/2021 11:00	Effluent Grab	Pesticides	Pronamide	0.16 U	ng/L	0.16	0.63
3/15/2021 11:00	Effluent Grab	Pesticides	Cyanazine	3.4 U	ng/L	3.4	14
3/15/2021 11:00	Effluent Grab	Pesticides	Dimethenamid	0.11 U	ng/L	0.11	0.42
3/15/2021 11:00	Effluent Grab	Pesticides	Fipronil Sulfone	0.16 U	ng/L	0.16	0.63
3/15/2021 11:00	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.11 U	ng/L	0.11	0.42
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Fluorene	0.024 U	µg/L	0.024	0.096

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Isophorone	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Phenol	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Bromoform	29	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Dibromochloromethane	41	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	4.8 U	µg/L	4.8	19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	0.96 U	µg/L	0.96	3.8
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.096 U	µg/L	0.096	0.38
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.48 U	µg/L	0.48	1.9
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	µg/L	2.9	12
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.6 U	µg/L	9.6	38
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.096 U	µg/L	0.096	0.38
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.048 U	µg/L	0.048	0.19

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Anthracene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Bromodichloromethane	18	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	1.9 U	µg/L	1.9	7.7
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	µg/L	1.9	7.7
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.19 U	µg/L	0.19	0.77
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	µg/L	1.9	7.7
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Pyrene	0.096 U	µg/L	0.096	0.38
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.048 U	µg/L	0.048	0.19

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Chrysene	0.024 U	µg/L	0.024	0.096
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Chloroform	9.4	µg/L	0.20	0.80
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.048 U	µg/L	0.048	0.19
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	9.6 U	µg/L	9.6	38
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	9.6 U	µg/L	9.6	38
3/15/2021 11:00	Effluent Grab	Priority Organic Pollutants	Benzidine	9.6 UJ	µg/L	9.6	38
3/15/2021 11:00	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	107.3	%Sat		
3/15/2021 11:00	Effluent Grab	AGP/LN	Algal Growth Potential	64.0 A	mg DryWt/L		
3/15/2021 11:00	Effluent Grab	AGP/LN	Algal Growth Potential-Salinity Adjusted	22.3 A	mg DryWt/L		
3/15/2021 11:00	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	107.3	%Sat		
3/15/2021 1:00	Effluent Composite	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 QU	mg/L	2.0	2.0
3/15/2021 1:00	Effluent Composite	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
3/15/2021 1:00	Effluent Composite	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 LQ	LC50		
3/15/2021 1:00	Effluent Composite	Nutrients	TSS	2 U	mg/L	2.0	10
3/15/2021 1:00	Effluent Composite	Nutrients	Ammonia-N	0.036	mg N/L	0.0020	0.0050
3/15/2021 1:00	Effluent Composite	Nutrients	Total-P	0.38	mg P/L	0.0050	0.050
3/15/2021 1:00	Effluent Composite	Nutrients	NO2NO3-N	0.37	mg N/L	0.0040	0.010
3/15/2021 1:00	Effluent Composite	Nutrients	Organic Carbon	6.8	mg C/L	0.50	1.0
3/15/2021 1:00	Effluent Composite	Nutrients	Kjeldahl Nitrogen	0.93	mg N/L	0.080	0.20
3/15/2021 10:45	Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
3/15/2021 10:45	Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
3/15/2021 10:45	Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
3/15/2021 10:45	Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
3/15/2021 10:45	Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
3/15/2021 10:45	Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
3/15/2021 10:45	Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 10:45	Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Metals	Iron	30 U	µg/L	30	120
3/15/2021 10:45	Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
3/15/2021 10:45	Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
3/15/2021 10:45	Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
3/15/2021 10:45	Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
3/15/2021 10:45	Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
3/15/2021 10:45	Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
3/15/2021 10:45	Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.10
3/15/2021 10:45	Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
3/15/2021 10:45	Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
3/15/2021 10:45	Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
3/15/2021 10:45	Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
3/15/2021 10:45	Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	0.13
3/15/2021 10:45	Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
3/15/2021 10:45	Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
3/15/2021 10:45	Blank	Nutrients	Organic Carbon	0.50 I	mg C/L	0.50	1.0
3/15/2021 10:45	Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
3/15/2021 10:45	Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
3/15/2021 10:45	Blank	Pesticides	Flumioxazin	1.7 U	ng/L	1.7	6.7
3/15/2021 10:45	Blank	Pesticides	Metolachlor	0.33 U	ng/L	0.33	1.3
3/15/2021 10:45	Blank	Pesticides	Sulfentrazone	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Terbufos	0.095 U	ng/L	0.095	0.38
3/15/2021 10:45	Blank	Pesticides	Atrazine Desethyl	1.4 U	ng/L	1.4	5.7
3/15/2021 10:45	Blank	Pesticides	Fipronil Sulfone	0.14 U	ng/L	0.14	0.57
3/15/2021 10:45	Blank	Pesticides	Fluxapyroxad	0.095 U	ng/L	0.095	0.38
3/15/2021 10:45	Blank	Pesticides	Parathion Ethyl	0.24 U	ng/L	0.24	0.95
3/15/2021 10:45	Blank	Pesticides	Phorate	0.50 U	ng/L	0.50	2.0
3/15/2021 10:45	Blank	Pesticides	Ametryn	0.57 U	ng/L	0.57	2.3
3/15/2021 10:45	Blank	Pesticides	Dimethenamid	0.095 U	ng/L	0.095	0.38
3/15/2021 10:45	Blank	Pesticides	EPTC	1.2 U	ng/L	1.2	4.8
3/15/2021 10:45	Blank	Pesticides	Malathion	0.33 U	ng/L	0.33	1.3
3/15/2021 10:45	Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	4.0
3/15/2021 10:45	Blank	Pesticides	Oxyfluorfen	0.14 U	ng/L	0.14	0.57

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 10:45	Blank	Pesticides	Parathion Methyl	0.52 U	ng/L	0.52	2.1
3/15/2021 10:45	Blank	Pesticides	Prodiamine	0.17 U	ng/L	0.17	0.67
3/15/2021 10:45	Blank	Pesticides	Pronamide	0.14 U	ng/L	0.14	0.57
3/15/2021 10:45	Blank	Pesticides	Disulfoton	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Dithiopyr	0.17 U	ng/L	0.17	0.67
3/15/2021 10:45	Blank	Pesticides	Fludioxonil	0.12 U	ng/L	0.12	0.48
3/15/2021 10:45	Blank	Pesticides	Flutolanil	0.095 U	ng/L	0.095	0.38
3/15/2021 10:45	Blank	Pesticides	Iprodione	0.57 U	ng/L	0.57	2.3
3/15/2021 10:45	Blank	Pesticides	Metribuzin	3.1 U	ng/L	3.1	12
3/15/2021 10:45	Blank	Pesticides	Naled	1.4 U	ng/L	1.4	5.7
3/15/2021 10:45	Blank	Pesticides	Norflurazon	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Oxadiazon	0.67 IQ	ng/L	0.34	1.4
3/15/2021 10:45	Blank	Pesticides	Simazine	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Acetochlor	0.24 U	ng/L	0.24	0.95
3/15/2021 10:45	Blank	Pesticides	Bromacil	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Carfentrazone Ethyl	0.095 U	ng/L	0.095	0.38
3/15/2021 10:45	Blank	Pesticides	Chlorpyrifos Methyl	0.048 U	ng/L	0.048	0.19
3/15/2021 10:45	Blank	Pesticides	Ethion	0.14 U	ng/L	0.14	0.57
3/15/2021 10:45	Blank	Pesticides	Hexazinone	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Pendimethalin	0.95 U	ng/L	0.95	3.8
3/15/2021 10:45	Blank	Pesticides	Prometryn	0.19 U	ng/L	0.19	0.76
3/15/2021 10:45	Blank	Pesticides	Ibuprofen	0.020 U	µg/L	0.020	0.080
3/15/2021 10:45	Blank	Pesticides	Atrazine	0.24 U	ng/L	0.24	0.95
3/15/2021 10:45	Blank	Pesticides	Carbophenothion	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Chlorpyrifos Ethyl	0.24 U	ng/L	0.24	0.95
3/15/2021 10:45	Blank	Pesticides	Cyanazine	3.1 U	ng/L	3.1	12
3/15/2021 10:45	Blank	Pesticides	Demeton	1.4 U	ng/L	1.4	5.7
3/15/2021 10:45	Blank	Pesticides	Diazinon	0.12 U	ng/L	0.12	0.48
3/15/2021 10:45	Blank	Pesticides	Fipronil Desulfinyl	0.12 U	ng/L	0.12	0.48
3/15/2021 10:45	Blank	Pesticides	Fluazifop-P-butyl	0.095 U	ng/L	0.095	0.38
3/15/2021 10:45	Blank	Pesticides	Tebuconazole	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Azoxystrobin	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Ethoprop	0.095 U	ng/L	0.095	0.38
3/15/2021 10:45	Blank	Pesticides	Fipronil	0.24 U	ng/L	0.24	0.95

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 10:45	Blank	Pesticides	Fonofos	0.19 U	ng/L	0.19	0.76
3/15/2021 10:45	Blank	Pesticides	Metalaxyl	0.71 U	ng/L	0.71	2.9
3/15/2021 10:45	Blank	Pesticides	Prometon	0.86 UJ	ng/L	0.86	3.3
3/15/2021 10:45	Blank	Pesticides	Pyriproxyfen	0.12 U	ng/L	0.12	0.48
3/15/2021 10:45	Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
3/15/2021 10:45	Blank	Pesticides	Alachlor	0.24 U	ng/L	0.24	0.95
3/15/2021 10:45	Blank	Pesticides	Azinphos Methyl	1.9 U	ng/L	1.9	7.6
3/15/2021 10:45	Blank	Pesticides	Caffeine	7.1 UJ	ng/L	7.1	29
3/15/2021 10:45	Blank	Pesticides	Difenoconazole	0.57 U	ng/L	0.57	2.3
3/15/2021 10:45	Blank	Pesticides	Fenamiphos	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Imazalil	0.71 U	ng/L	0.71	2.9
3/15/2021 10:45	Blank	Pesticides	Molinate	0.29 U	ng/L	0.29	1.1
3/15/2021 10:45	Blank	Pesticides	Myclobutanil	0.24 U	ng/L	0.24	0.95
3/15/2021 10:45	Blank	Pesticides	Propiconazole	0.48 U	ng/L	0.48	1.9
3/15/2021 10:45	Blank	Pesticides	Terbuthylazine	0.40 U	ng/L	0.40	1.6
3/15/2021 10:45	Blank	Pesticides	Sucralose	0.010 U	µg/L	0.010	0.040
3/15/2021 10:45	Blank	Pesticides	Butylate	0.38 U	ng/L	0.38	1.5
3/15/2021 10:45	Blank	Pesticides	Fenbuconazole	0.12 U	ng/L	0.12	0.48
3/15/2021 10:45	Blank	Pesticides	Fipronil Sulfide	0.14 U	ng/L	0.14	0.57
3/15/2021 10:45	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.4 U	µg/L	9.4	38
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Phenanthrene	0.094 U	µg/L	0.094	0.38
3/15/2021 10:45	Blank	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	2-Chlorophenol	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	4.7 U	µg/L	4.7	19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Hexachloroethane	0.047 U	µg/L	0.047	0.19

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 10:45	Blank	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	9.4 U	µg/L	9.4	38
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chrysene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Dimethyl phthalate	0.19 U	µg/L	0.19	0.75
3/15/2021 10:45	Blank	Priority Organic Pollutants	Fluoranthene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8 U	µg/L	2.8	11
3/15/2021 10:45	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	4-Nitrophenol	9.4 U	µg/L	9.4	38
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	µg/L	1.9	7.5
3/15/2021 10:45	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Phenol	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Pyrene	0.094 U	µg/L	0.094	0.38
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Acenaphthylene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Fluorene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Acenaphthene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Anthracene	0.047 U	µg/L	0.047	0.19

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzidine	9.4 U	µg/L	9.4	38
3/15/2021 10:45	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Isophorone	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	µg/L	1.9	7.5
3/15/2021 10:45	Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.94 U	µg/L	0.94	3.8
3/15/2021 10:45	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Diethyl phthalate	1.9 U	µg/L	1.9	7.5
3/15/2021 10:45	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Nitrobenzene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	2-Nitrophenol	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 U	µg/L	0.024	0.094
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.047 U	µg/L	0.047	0.19
3/15/2021 10:45	Blank	Priority Organic Pollutants	Naphthalene	0.094 U	µg/L	0.094	0.38
3/15/2021 10:45	Blank	Priority Organic Pollutants	Pentachlorophenol	0.47 U	µg/L	0.47	1.9
3/15/2021 10:45	Blank	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
3/15/2021 10:45	Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80