Biological Assessment of Rayonier Performance Fibers, LLC Nassau County NPDES # FL0000701 Sampled July 19, 2021

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
February 2022

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Summary of Results

Turbidity and enterococci in the effluent grab sample exceeded Class III Water Quality Criteria for Marine Waters (Subsections 62-302.530(70), (6)(c), F.A.C.). There is no indication of nutrient enrichment due to the effluent. Aluminum and iron in the Test Site sample and iron in the Control Site sample exceeded Class III Water Quality Criteria for Marine Waters (Subsections 62-302.530(2), (38), F.A.C.). Five organic constituents were detected in the effluent sample. Four priority organic pollutants were detected in the Test Site sediments only. The percent of dry weight organic content is higher in the Test Site compared with the Control Site. Arsenic level in the Test Site sediments exceeds the threshold effects level (TEL) from Sediment Quality Assessment Guidelines.

Facility Overview

The Rayonier Performance Fibers, LLC is a dissolving sulfite pulp mill facility that manufactures high purity dissolving pulp grades to be used in photographic and liquid crystal display (LCD) film, food additives, pharmaceuticals, high grade plastics and acetate fibers. This industrial wastewater facility also processes flow from scrubber blowdown and wash-up water from the lignin processing plant Ligno Tech Florida. 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. DMR trends show bleach plant effluent exceedances for 2,4,6-trichlorophenol in the past year. A warning letter was issued in 2020 for unauthorized discharge of wastewater. The effluent is intermittently discharged on outgoing tides only into Amelia River, a Class III Marine Water [waterbody identification (WBID) 2124] (Figure 1). The discharge location (D-001) outfall line is approximately 800 feet in length, 48 inches in diameter, and is equipped with a diffuser. This discharge has mixing zones for dissolved oxygen, acute toxicity, copper, nickel, lead, zinc, iron, aluminum, and pH pursuant to Rule 62-4.244, F.A.C.

The Amelia River falls under the Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria (NNC) for Lower St. Marys River. For this region, the NNC are 0.181 mg/L total phosphorus and 12.9 µg/L chlorophyll *a.* The criteria shall not be exceeded in more than 10 percent of the measurements and are assessed over a seven-year period. NNC criterion expressed as an annual geometric mean is 0.77 mg/L for total nitrogen (Paragraph 62-302.532(1)(cc)(1), 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 EFF-1, for outfall D-001 on July 19, 2021. Receiving water sites were sampled on an outgoing tide. Chemical and biological comparisons were made between a Control Site SWU-1 (located in Amelia River approximately 600 m upstream of the point of outfall D-001) and a Test Site SWD-2 (located in Amelia River 600 m downstream of the point of outfall D-001 and beyond the downstream edge of the mixing zone) (Figure 1). The permit requires acute definitive toxicity testing, but acute screening toxicity test was scheduled and performed. The permit specifies 24-hour flow composite effluent samples for 2,3,7,8-Trichlorodibenzo-p-dioxin (TCCD) and 2,3,7,8-Trichlorodibenzo-furan (TCF) analyses, but samples were scheduled and collected as a grab instead. During sample collection, phosphate filters clogged quickly and were changed several times.

Samples were collected by Shannon Taylor, Abhi Maturi, Malyssa Peabody and Paul Duff (DEP Northeast District Office), Jeremy Parrish, and Kelly McDonald (DEP Northeast Regional Operation Center, Jacksonville). The composite sample was collected by a facility sampler. Analyses were performed by ALS Environmental Laboratories in Jacksonville, DEP Laboratory in Tallahassee, and Eurofins TestAmerica Laboratories in Tampa, FL, Savannah, GA, and Sacramento, CA. The report was reviewed by District representatives and the Point Source Studies Review Committee (Herbert Johnson and Lauren Gottfreid).

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.

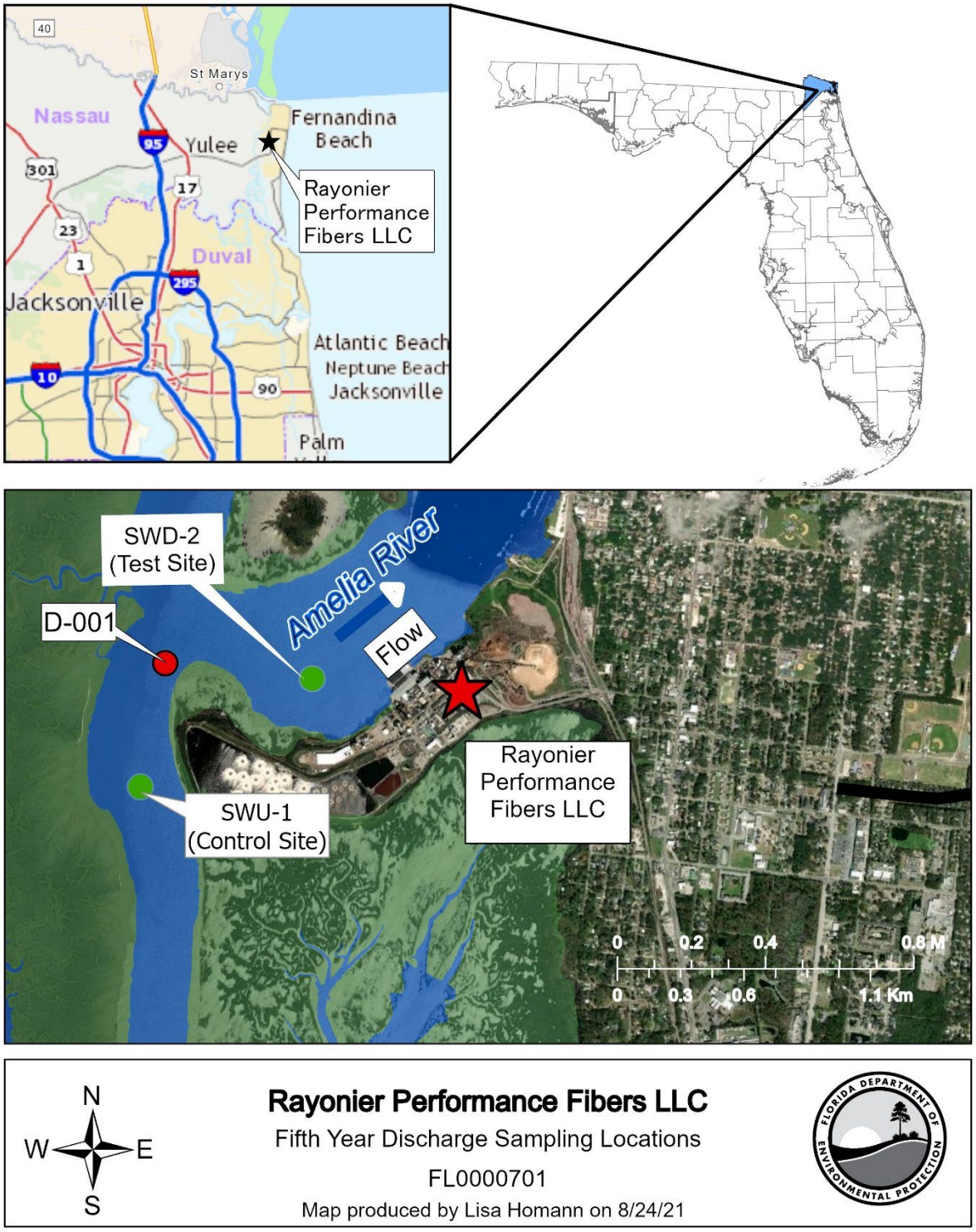


Figure 1. Map of Facility and Sampling Locations

Results

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

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

- All water quality parameters measured at the Test and Control Sites complied with Class III Water Quality Criteria for Marine Waters.

Analytical Water Chemistry (See Table 2 and Appendix D)

- Turbidity detected in the effluent grab sample exceeded the Class III Water Quality Criterion for Marine Waters (Subsection 62-302.530(70), F.A.C.).

- Nutrient measurements in the Test and Control Site samples were similar to one another.

- For comparative purposes only, the calculated values of total nitrogen for the effluent grab, effluent composite, Test Site, and Control Site samples were greater than the Estuary-Specific NNC annual geometric mean values for the region. The concentrations of total phosphorus and chlorophyll *a* for the effluent grab sample were greater than the Estuary-Specific NNC criteria and below the limits in Test and Control Site samples.

Microbiology (See Table 2 and Appendix B)

- Effluent enterococci levels exceeded the Class III Water Quality Criterion for Marine Waters (Subsection 62-302.530(6)(c), F.A.C.). High levels of fecal coliform were detected in the effluent grab sample. There are no effluent permit limits for bacteria.

- Enterococci levels were detected in the Test and Control Site samples at levels that complied with the Class III Water Quality Criterion for Marine Waters.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed July 20 through July 24, 2021.

- The sample was aerated for 30 minutes at a rate of approximately 100 bubbles per minute to increase the dissolved oxygen (DO) from 5.9 mg/L to 6.8 mg/L.

- Aliquots of the bioassay sample were salinity-adjusted according to method requirements from an apparent salinity of approximately 2.46 parts per thousand (ppth) to a salinity of approximately 20 ppth for the *Americamysis bahia* test and to a salinity of approximately 15.3 ppth for the *Menidia beryllina* test. Control mortality, for both the test controls and salt-adjusted control, were within method acceptance criteria.

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

- In a 96-hour acute screening test of 100% effluent, mortality of <20% provides confidence that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Rule and 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 (Rule 62-4.244(3) (a), F.A.C.).

- For the 96-hour acute screening test, the calculated LC50 for the mysid, *Americamysis bahia*, was >60% effluent with 25% mortality in 60% sample. The calculated LC50 for the inland silverside, *Menidia beryllina*, was >60% effluent with 10% mortality in 60% sample. The effluent sample complies with the LC50 requirement for both test species, but low toxicity was indicated by the mortality rate of *Americamysis bahia*. Compliance cannot be determined since a definitive test was not performed.

- 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 chromium VI was measured at levels that exceeded the Class III Water Quality Criterion for Marine Waters (Subsections 62-302.530(19)(b), F.A.C.). However, compliance cannot be determined since effluent chromium VI levels were higher than total chromium which are contradictory results. Effluent sample used to measure chromium VI was Q qualified for exceeding the holding time. Analytical methods used to measure effluent chromium VI and total chromium levels are different in their approach. Recommend to re-sample and analyze the two analytes again.

- All effluent metals complied with effluent permit limits.

- Aluminum in the Test Site sample and iron in the Test and Control Site samples exceeded Class III Water Quality Criteria for Marine Waters (Subsections 62-302.530(2), (38), F.A.C.).

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata* and the saltwater species, *Dunaliella tertiolecta*, were used to determine the algal growth potential (AGP) values in the effluent grab sample. *Dunaliella tertiolecta* was also used to determine the AGP in the Test Site and Control Site samples.

- The effluent AGP result of 2.55 A, Test Site result of 5.65 A, and Control Site result of 3.06 mg dry wt/L are within the AGP range (0.81 to 6.00 mg dry wt/L) suggested to be representative of moderately high productivity for freshwater (Miller et al. 1978). The AGP values were similar among all three samples.

- An aliquot of the effluent grab AGP sample was salinity adjusted from an apparent salinity of approximately 2.0 parts per thousand (ppth) to a salinity of approximately

6.8 ppth by the addition of artificial sea salts to meet the salinity requirements of the test species *Dunaliella tertiolecta*.

- The predicted AGP was very high compared to measured AGP value for the effluent grab sample. Comparing the measured and predicted AGP results, an inference can be made that not all the nutrients in the effluent were bio-available to the test species. To determine actual nutrient limitation, a limiting-nutrient algal growth potential test would need to be performed (Maloney et al. 1974). Another possible explanation in the standard method is presence of toxicants can inhibit or prevent algal growth even when nutrients are not growth-limiting (Miller et al. 1978).

- Nitrate-nitrite was not detected in the effluent sample. Using ½ the method detection limit (MDL) for nitrate-nitrite in the calculation for total nitrogen to phosphorus ratio. The analytical chemistry suggests that the effluent is ortho-phosphate limited, and the Test Site and Control Site are probably nitrogen-limited (Miller et al. 1978).

Organic Constituents (See Table 7 and Appendix D)

- Acetochlor, atrazine, and terbuthylazine were detected in the effluent grab sample. 2,4,6-trichlorophenol and phenol were detected in the effluent composite sample at levels that complied with Class III Water Quality Criteria for Marine Water.

- The concentration of 2,3,7,8-Trichlorodibenzo-p-dioxin (TCDD) in the grab effluent sample was 1.4 U pg/L. Compliance with the permit cannot be determined since monitoring requirements require a 24-hour proportioned sample. According to permit condition I.A.15, if concentration levels of TCDD using method 1613B are lower than 10 pg/L in a 24-hour flow proportioned sample, compliance with the permit is demonstrated.

Sediments (See Table 6 and Appendix D)

- The percent of dry weight organic content is higher in the Test Site than the Control Site sediments.

- Arsenic levels in the Test Site were between the threshold effects level (TEL) and the probable effects level (PEL) from Sediment Quality Assessment Guidelines (MacDonald 1994). Levels of the remaining detected metals in Test Site and Control Site were below the TEL for sediment metals (MacDonald, 1994).

- Chrysene, fluoranthene, phenanthrene and pyrene were detected in the Test Site sediments below the TEL for priority organic pollutants (MacDonald 1994). They were not detected in the Control Site sediments.

Literature Cited

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Maloney, T. E., Miller, W. E. and Specht, D. T. 1974. The Marine Algal Assay Procedure: Bottle Test. National Environmental Research Center Office of Research and Development. U. S. EPA, Corvallis, Oregon. 43 p.

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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	Test Site	Control Site
Sample Depth	m	-	-	-	0.3	0.3
Temperature	C	-	Report	28	28.8	28.8
pH	SU	6.5 - 8.5 s	6.0 - 8.5	7.5	7.3	7.4
Specific Conductance	µmhos/cm	-	Report	4,478	40,128	-
Salinity	ppth	-	-	-	25.6	25.6
Salinity (calculated)	ppth	-	-	2 c	20 c	0 c
Dissolved Oxygen	% saturation	≥ 42	Report	45	49.5	51.4
Dissolved Oxygen	mg/L	-	Report	3.3	3.3	3.4

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

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	Effluent Composite	Test Site	Control Site
Ortho-phosphate	mg P/L	-	Report	0.007 IJ	-	0.026	0.030
Total Phosphorus	mg P/L	≤ 0.181 [1]	Report	1.7	1.7	0.099	0.095
Total Ammonia	mg N/L	-	Report	12	13	0.076	0.062
Un-ionized Ammonia (calculated salinity)	-	-	-	0.3 c	-	< 0.02 c	< 0.02 c
Nitrate and Nitrite	mg N/L	-	Report	0.008 U	0.012	0.028	0.028
Total Kjeldahl Nitrogen	mg N/L	-	Report	43	44	0.91	0.76
Organic Nitrogen	mg N/L	-	Report	31 c	31 c	0.83 c	0.7 c
Total Nitrogen	mg N/L	≤ 0.77 g	Report	43 c	44 c	0.94 c	0.79 c
Total Organic Carbon	mg C/L	-	-	430	430	11	11
Chlorophyll *a* - Corrected	µg/L	≤ 12.9 [1]	Report	65 I	-	5.4 I	4.6 I
Phaeophytin	µg/L	-	-	45 U	-	3.7 I	2.9 I
CBOD, 5 day, N - inhibited	mg/L	-	Report	60	-	2.0	2.0
Hardness	mg CaCO3/L	-	-	914 c	-	4,810 c	4,770 c
Total Suspended Solids	mg/L	-	Report	-	28	74	31
Turbidity	NTU	≤ 29 t	-	290 A e	-	19	17
Color (true)	PCU	-	-	1,700 AJ	-	84 J	86 J
Alkalinity	mg CaCO3/L	-	-	319 A	-	97	97
Chloride	mg Cl/L	-	-	350 A	-	15,000	14,000
Fluoride	mg F/L	≤ 5.0	-	0.70	-	1.0	1.0
Sulfate	mg SO4/L	-	-	1,700 A	-	2,100	2,000
Fecal Coliforms	cfu/100 mL	-	-	2,800	-	40	66
Enterococci	MPN/100 mL	≤ 130	-	2,420 J e	-	52	10
Bioassay - Mysid (*Americamysis bahia*)	% effluent	-	≥ 30	> 60	-	-	-
Bioassay - Fish *(Menidia beryllina)*	% effluent	-	≥ 30	> 60	-	-	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
e - Value exceeds the Class III Water Quality Criteria or permit limits
g- Value expressed as annual geometric mean.
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
U - Material analyzed for but not detected; value reported is the method detection limit
1 - shall not be exceeded in more than 10 percent of the measurements in the most recent seven years.

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	Test Site	Control Site
Aluminum	µg/L	≤ 1,500	≤ 3,000 s	1,170	1,570 e	1,290
Arsenic	µg/L	≤ 50	-	1.74	3.96	3.72
Cadmium	µg/L	≤ 8.8	-	0.382	0.080 U	0.080 U
Calcium	mg/L	-	-	314	316	312
Chromium, Total [2]	µg/L	≤ 50	-	10.8 [3]	2.5 I	2.1 I
Chromium (VI)	µg/L	≤ 50	-	83 Q [3]	3.0 U Q	3.0 U Q
Copper	µg/L	≤ 3.7	≤ 11.5 s	10.2 e	1.6 U	1.6 U
Iron	µg/L	≤ 300	≤ 2,400 s	1,110 e	1,420 e	1,120 e
Lead	µg/L	≤ 8.5	≤ 27.2 s	2.18	1.1 I	0.87 I
Magnesium	mg/L	-	-	31.6	976	970
Mercury	ng/L	≤ 25	Report	0.99	-	-
Nickel	µg/L	≤ 8.3	≤ 66.4 s	13.9 e	3.8 I	2.0 U
Potassium	mg/L	-	-	12.6	310	299
Selenium	µg/L	≤ 71	-	0.20 U	0.80 U	0.80 U
Silver	µg/L	≤ 2.3	≤ 2.3 s	0.157	0.040 U	0.040 U
Sodium	mg/L	-	-	901	8,590	8,380
Zinc	µg/L	≤ 86	≤ 410.0 s	131 e	15 U	15 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
e -Value exceeds the Class III Water Quality Criteria or permit limits
s - Single sample
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit

2 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI
3 – Conflicting results.

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	*Dunaliella tertiolecta*	3.00 U *	not applicable [4]	not applicable [4]	not applicable [4]	not applicable [4]	2,000 [5]	30 [5]
Effluent Grab	*Pseudokirchneriella subcapitata*	2.55 A	460 ± 92 [5]	3 ± 0.6	1600 ± 320 [5]	731 ± 146.2	2,000 [5]	30 [5]
Test Site	*Dunaliella tertiolecta*	5.65 A	not applicable [4]	not applicable [4]	not applicable [4]	not applicable [4]	4	9.5
Control Site	*Dunaliella tertiolecta*	3.06	not applicable [4]	not applicable [4]	not applicable [4]	not applicable [4]	3	8.3

* - sample salinity adjusted to 6.8 ppth

A - Value reported is the mean of two or more determinations

U - Material analyzed for but not detected; value reported is the method detection limit

4 - predictions not applicable to marine matrix

5- Nitrate-nitrite was not detected in the effluent grab. Predicted AGP and N:P ratios were calculated using ½ the method of detection limit (MDL) for non-detect values

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	Effluent Composite	Test Site	Control Site
Acetochlor	ng/L	-	-	0.43 I	-	-	-
Atrazine	ng/L	-	-	3.4 J	-	-	-
Terbuthylazine	ng/L	-	-	5.8 J	-	-	-
2,4,6-Trichlorophenol	µg/L	≤ 6.5 a	-	-	2.1	-	-
Phenol	µg/L	≤ 300	-	-	2.3	-	-
2,3,7,8-Trichlorodibenzo-p-dioxin	pg/L	-	≤ 0.014 p	1.4 U J	-	0.14 U J	0.19 U J
2,3,7,8-Trichlorodibenzo-furan	pg/L	-	Report	0.75 U	-	0.070 U	0.078 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
a - Annual average
p – 24-hour flow proportioned composite
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
J - Estimated value

Table 6. Metals and organic constituents detected in sediments

Analyte	Units	Sediment Quality Assessment Guidelines		Test Site	Control Site
		TEL	PEL		
Organic Content					
Organic Content	% dry wt	-	-	6.1	1.0 K
Metals					
Arsenic	mg/Kg	7.24	41.6	7.47 [6]	1.13
Cadmium	mg/Kg	0.676	4.21	0.101	0.022 I
Chromium	mg/Kg	52.3	160	19.0	2.71
Copper	mg/Kg	18.7	108	4.32	0.29 I
Lead	mg/Kg	30.2	112	7.19	0.82
Nickel	mg/Kg	15.9	42.8	5.6	0.64 I
Silver	mg/Kg	0.733	1.77	0.026	0.0037 U
Zinc	mg/Kg	124	271	25.0	5.8 I
Organic Constituents					
Chrysene	µg/kg	108	846	20 I	8.7 U
Fluoranthene	µg/kg	113	1,494	36 I	8.7 U
Phenanthrene	µg/kg	86.7	544	21 I	8.7 U
Pyrene	µg/kg	153	1,398	33 I	8.7 U

6 - Exceeds the threshold effects level (TEL) from Sediment Quality Assessment Guidelines, (MacDonald 1994)

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

K - Actual value is known to be less than value given

U - Material analyzed for but not detected; value reported is the method detection limit

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Shannon Taylor	**Contact Number:** (904) 256-1617
Facility Name (as it appears on permit): Rayonier Performance Fibers LLC	Former Names: N/A
NPDES Permit Number: FL0000701	**Permit Expiration Date:** January 25, 2022
Physical Address: 10 Gum Street, Fernandina Beach, Florida 32035	
District: NED	**County:** Nassau
Function of Facility: Dissolving Sulfite Pulp Mill, classified as Subpart D of the Pulp and Paper Point Source Categories. WWTF processes water from flow from scrubber blowdown and wash-up water.	
Facility Type: Industrial Waste	**Permitted Capacity (MGD):** 26.31 MGD

Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months):

Date	Monitoring Site	Daily Average in MGD
4/30/2021	EFF-1	15.22
4/30/2021	EFF-1	16.79
3/31/2021	EFF-1	15
3/31/2021	EFF-1	17.5
2/28/2021	EFF-1	16.75
2/28/2021	EFF-1	15.31
1/31/2021	EFF-1	14.86
1/31/2021	EFF-1	16.75

12/31/2020	EFF-1	15.07
12/31/2020	EFF-1	16.91
11/30/2020	EFF-1	17.44
11/30/2020	EFF-1	15.18
10/31/2020	EFF-1	15.92
10/31/2020	EFF-1	17.8
9/30/2020	EFF-1	15.31
9/30/2020	EFF-1	17.79
8/31/2020	EFF-1	19.5
8/31/2020	EFF-1	13.06
7/31/2020	EFF-1	17.16
7/31/2020	EFF-1	15.91
6/30/2020	EFF-1	15.19
6/30/2020	EFF-1	17.62
5/31/2020	EFF-1	16.67
5/31/2020	EFF-1	14.98
Average		10.85625

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: allowed on the ebb tide only (outgoing) with the exception of discharges associated with the clear sewer discharge.

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

Monitoring Site	**Description of Monitoring Sites**
SWB-1	Background ambient sampling location, upstream of the outfall at the crossing of the A1A Highway (STORET # 19020004)

SWU-1	Upstream ambient sampling location, approximately 600 meters upstream of the outfall
SWD-1	Ambient sampling location, approximately 6.0 meters downstream of the outfall (edge of the copper mixing zone – largest metals mixing zone)
SWD-2	Downstream ambient sampling location, approximately 600 meters downstream of the outfall (STORET # 19020012)
SWD-3	Downstream ambient sampling location, approximately 2,400 meters downstream of the outfall (STORET # 19020007)
SWD-4	Downstream ambient sampling location, approximately 15 meters downstream of the outfall, outside the DO mixing zone

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 26.31 MGD maximum daily flow permitted discharge to the Amelia River (Class III Marine Waters) through Outfall D-001 on outgoing tides only. The outfall is located in the Nassau-St. Mary's River Watershed (Group 4 Basin) within WBID #2124. The D-001 outfall line is approximately 800 feet in length, 48 inches in diameter, and is equipped with a diffuser. The point of discharge is located at approximate latitude 30º 39' 21" N and longitude 81º 29' 2" W.

This discharge has mixing zones for dissolved oxygen, acute toxicity, copper, nickel, lead, zinc, iron, aluminum, and pH pursuant to Rule 62-4.244 FAC.

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

For the operation renewal of a 26.31million gallons per day (MGD) design capacity industrial wastewater treatment system consisting of grit removal, neutralization, primary clarification, and a 34-acre mechanical aeration lagoon with effluent discharge through surface water discharge D-001 on outgoing tides only.

PART I: Continued

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

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**MonitoringSite**	**Notes**
Flow, Total (clear sewer and treated process wastewater and treated stormwater)	MGD	Max Max	26.31 Report	Daily Maximum Daily Average	Continuous	Calculated	EFF-1	See I.A.5
Flow, clear sewer (clear sewer (rinse water and regenerate water) from the water treatment plant)	MGD	Max Max	Report Report	Daily Maximum Daily Average	Continuous	Recording Flow Meter with Totalizer	EFF-2	See I.A.5
Flow, treated process wastewater and treated stormwater	MGD	Max Max	Report Report	Daily Maximum Daily Average	Continuous	Recording Flow Meter with Totalizer	EFF-3	See I.A.5
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Continuous	Meter	EFF-1	See I.A.9
Temperature (F), Water	Deg F	Max	Report	Daily Maximum	Continuous	Meter	EFF-1	
Biochemical Oxygen Demand-5	mg/L	Max Max	Report Report	Daily Maximum Daily Average	Daily, when discharging	24-hr FPC	EFF-1	See I.A.3,I.A.7
Biochemical Oxygen Demand-5	lb/day	Max Max	47,250 27,000	Daily Maximum Daily Average	Daily, when discharging	24-hr FPC	EFF-1	See I.A.3, I.A.7
Solids, Total Suspended	mg/L	Max Max	Report Report	Daily Maximum Daily Average	Daily, when discharging	24-hr FPC	EFF-1	See I.A.3,I.A.7
Solids, Total Suspended	lb/day	Max Max	55,000 38,249	Daily Maximum Daily Average	Daily, when discharging	24-hr FPC	EFF-1	See I.A.3, I.A.7

Nitrogen, Ammonia, Total(as N)	mg/L	Max Max Max	11.0 20.0 Report	Annual Average Monthly Average Daily Maximum	Weekly	24-hr FPC	EFF-1	See I.A.3 and I.A.11
Silver, Total Recoverable	ug/L	Max	2.3	Daily Maximum	Annually	Grab	EFF-1	See I.A.4 and I.A.9
Nickel, Total Recoverable	ug/L	Max	66.4	Daily Maximum	Monthly	Grab	EFF-1	See I.A.4 and I.A.9
Aluminum, Total Recoverable	mg/L	Max	3.0	Daily Maximum	Monthly	Grab	EFF-1	See I.A.4 and I.A.9
Copper, Total Recoverable	ug/L	Max	11.5	Daily Maximum	Monthly	Grab	EFF-1	See I.A.4 and I.A.9
Iron, Total Recoverable	mg/L	Max	2.4	Daily Maximum	Monthly	Grab	EFF-1	See I.A.4 and I.A.9
Lead, Total Recoverable	ug/L	Max	27.2	Daily Maximum	Monthly	Grab	EFF-1	See I.A.4 and I.A.9
Zinc, Total Recoverable	ug/L	Max	410.0	Daily Maximum	Monthly	Grab	EFF-1	See I.A.4 and I.A.9
2,3,7,8-tetrachlorodibenzo-p-dioxin	pg/L	Max	0.014	Daily Maximum	Quarterly	24-hr FPC	EFF-1	See I.A.3 and I.A.15
2,3,7,8-tetrachlorodibenzo-furan	pg/L	Max	Report	Daily Maximum	Quarterly	24-hr FPC	EFF-1	See I.A.3
3,4,5-Trichlorocatechol	ug/L	Max	288.4	Daily Maximum	Monthly	24-hr FPC	OUI-1	See I.A.4
3,4,5-Trichloroguaiacol	ug/L	Max	58.5	Daily Maximum	Monthly	24-hr FPC	OUI-1	See I.A.4
4,5,6-Trichloroguaiacol	ug/L	Max	10.2	Daily Maximum	Monthly	24-hr FPC	OUI-1	See I.A.4
2,4,6-Trichlorophenol	ug/L	Max	53.5	Daily Maximum	Monthly	24-hr FPC	OUI-1	See I.A.4
Chloroform (CHCl3) *(whe units are kg/ADUBMT)*	lbs/day	Max	4229	Daily Maximum	Monthly	24-hr FPC	OUI-1	See I.A.4
Adsorbable Organic Halides (AOX)(where units are g/ADUBMT)	lbs/day	Max	Report	Daily Maximum	Monthly	Grab	OUI-1	See I.A.4
Phosphorus, Total (as P)	Lbs/yr Lbs/mo	Max Max	277,968 Report	Annual Total Monthly Total	Monthly	Calculation	CAL-1	See I.A.4, I.A.10.d andI.A.11
Phosphorus, Total (as P)	mg/L	Max	Report	Monthly Average Single Sample	Monthly	Grab	EFF-1	See I.A.4, I.A.10.d, and I.A.11

Phosphate, Ortho (as P)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab andfiltered immediately	EFF-1	See I.A.4 and I.A.10.d
Nitrogen, Total (as N)	Lbs/yr	Max	2,674,102	Annual Total	Monthly	Calculation	CAL-1	See I.A.4, I.A.10.d andI.A.11
	Lbs/mo	Max	Report	Monthly Total				
Nitrogen, Total (as N)	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-1	See I.A.4, I.A.10.d, and I.A.11
				Single Sample				
Nitrite plus Nitrate, Total1 det. (as N)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-1	See I.A.4 and I.A.10.d
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-1	See I.A.4 and I.A.10.d
Benzene	µg/L	Max	Report	Daily Maximum	Annually; onceper year	Grab	EFF-3	See I.A.8 and I.A.13
Toluene	µg/L	Max	Report	Daily Maximum	Annually; once per year	Grab	EFF-3	See I.A.8 and I.A.13
Ethylbenzene	µg/L	Max	Report	Daily Maximum	Annually; onceper year	Grab	EFF-3	See I.A.8 and I.A.13
Xylene	µg/L	Max	Report	Daily Maximum	Annually; once per year	Grab	EFF-3	See I.A.8 and I.A.13
Arsenic, TotalRecoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-3	See I.A.8 and I.A.13
Cadmium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-3	See I.A.8 and I.A.13
Chromium, HexavalentTotal Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually;twice per year	Grab	EFF-3	See I.A.8 and I.A.13
Acute Whole Effluent Toxicity, 96-hour LC50(*Americamysis bahia*)	percent	Min	30	Single Sample	Semi-Annual;twice per year	Grab	EFF-1	See I.A.4 and I.A.6
Acute Whole Effluent Toxicity, 96-hour LC50(*Menidia beryllina*)	percent	Min	30	Single Sample	Semi-Annual;twice per year	Grab	EFF-1	See I.A.4 and I.A.6

Total RecoverableMercury	ug/L	Max	Report	Single Sample	Annually	Grab	EFF-1	See I.A.14
Oxygen, dissolved (DO), Oxygen, DissolvedPercent Saturation,	mg/L Percent	Min	Report	Daily Minimum	Quarterly when discharging (monthly duringJuly – Sept)	Meter	SWD-4	See I.A.9c,I.A.10
Tide Stage	ft	Max	Report	Single Sample	Quarterly	Calculated	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Oxygen, dissolved (DO)	mg/L	Min	Report	Single Sample	Quarterly	Meter	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Oxygen, DissolvedPercent Saturation	Percent	Min	Report	Single Sample	Quarterly	Meter	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
pH	s.u.	Max	Report	Single Sample	Quarterly	Meter	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Temperature (C), Water	Deg C	Max	Report	Single Sample	Quarterly	Meter	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Specific Conductance	umhos/cm	Max	Report	Single Sample	Quarterly	Meter	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
BOD, Carbonaceous 5day, 20C	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Solids, Total Suspended	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Chlorophyll a	µg/L µg/L	Max Max	Report Report	Single Sample Annual Geometric Mean	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3 SWD-1, SWD-2,SWD-3	See I.A.10 See I.A.10
Nitrogen, Total, as N	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10

Nitrogen, Kjeldahl, Total(as N)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Nitrogen, Ammonia, Total(as N)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2,SWD-3	See I.A.10
Nitrogen, Organic, Total (as N)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Phosphate, Ortho (as P)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Copper, Total Recoverable	µg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Nickel, Total Recoverable	µg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Aluminum, Total Recoverable	µg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Iron, Total Recoverable	µg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Lead, Total Recoverable	µg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10
Zinc, Total Recoverable	µg/L	Max	Report	Single Sample	Quarterly	Grab	SWB-1, SWU-1, SWD-1, SWD-2, SWD-3	See I.A.10

PART I: Continued

Receiving Waters: Amelia River	**Classification (indicate whether fresh or marine):** marine, however salinity is widely variable over the course of two change tides per day.

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

6. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001.

a. Effluent Limitation

(1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 30% effluent. *[62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(b), and 62-4.241(3)(b), F.A.C.]*

b. Monitoring Frequency

(1) Routine toxicity tests shall be conducted once every six months, the first starting within 6 months of the most recent tests and lasting for the duration of this permit.

c. Sampling Requirements

(1) All tests shall be conducted on a single lab-composited sample of final effluent.

(2) The samples tested shall be a mixture composited in the laboratory to represent the flow-proportioned discharge from EFF-1 as described in I.A.6 below.

d. Test Requirements

(1) Routine Test: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **60%**, **30%**, **15%**, **7.5%** and **3.75%** final effluent.

(2) The permittee shall conduct 96-hour acute, static-renewal, multi-concentration toxicity tests using the mysid, ***Americamysis bahia***, and the inland silverside, ***Menidia beryllina***, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition, EPA-821-R-02-012. 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 acute toxicity testing in accordance with the revised method.

(4) The control water and dilution water shall be artificial seawater, or hypersaline brine, diluted to the test salinity as described in EPA-821-R-02-012, Sections 7.2.4. and 7.3.7, respectively. The control/dilution water shall be prepared to 20 parts per thousand (ppth) with the same artificial sea salts or hypersaline brine that is used to adjust the salinity of the effluent. The test salinity shall be determined as follows:

(a) The test salinity for ***Americamysis bahia*** shall be 20 ppth. In addition to the 20 ppth diluent control, a sea salt / brine control shall be prepared by diluting the 20 ppth diluent with de-ionized water, distilled water, or well water to the salinity of the original effluent, then adjusting the salinity of the diluted diluent to the test salinity (20 ppth) with artificial sea salts or hypersaline brine, as was used to adjust the effluent salinity.

(b) The effluent salinity for the ***Menidia beryllina*** bioassay shall be the salinity resulting from the mixture of 30% effluent with 70% diluent at 20 ppth salinity. This salinity can either be calculated

or measured. The effluent salinity for the ***Menidia beryllina*** bioassay shall be adjusted to match this measured/calculated salinity by adding artificial sea salts or hypersaline brine. The salinity of the control/dilution water (initially 20 ppth) shall be adjusted by dilution to match the salinity of the adjusted effluent. In addition to the diluent control, a sea salt / brine control shall be prepared by diluting the salinity adjusted diluent with de-ionized water, distilled water, or well water to the salinity of the original effluent, then adjusting the salinity of the diluted diluent to the test salinity with artificial sea salts or hypersaline brine, as was used to adjust the effluent salinity.
(c) If hypersaline brine is used to prepare the control/dilution water and to adjust the salinity of the effluent, the volume of hypersaline brine added to the effluent must be taken into account when preparing the effluent dilutions.

e. Quality Assurance Requirements
(1) A standard reference toxicant (SRT) quality assurance (QA) acute 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 acute 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 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.
(3) If 100% mortality occurs in all effluent concentrations prior to the end of any test and the control mortality is less than 10% at that time, the test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.
(4) Additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and included with the bioassay laboratory reports.

f. Reporting Requirements
(1) Results from all required routine and additional tests shall be reported as the calculated LC50 effluent concentration for that test species on the **monthly** Discharge Monitoring Report (DMR).
(2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and mailed or **e-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-02-012, Section 12, and mailed or **e-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 mailed or **e-mailed** to Jacksonville ***only***:
Florida Department of Environmental Protection
Northeast District – Wastewater Compliance
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

g. Test Failures
(1) A test fails when the test results do not meet the limits in 6.a.(1).

(2) Additional Follow-up Tests: (a) If a routine test does not meet the acute toxicity limitation in 6.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 6.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 additional follow-up tests shall be conducted using a control and a minimum of five dilutions: 60%, 30%, 15%, 7.5% and 3.75% effluent. However, the permittee may modify the dilution series in the additional follow-up tests to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control are run. All test results shall be statistically analyzed according to the Appendices in EPA-821-R-02-012.
(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 6.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 6.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 days after the last day of the invalid routine test.
(f) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in 6.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 valid routine whole effluent toxicity tests.
(g) If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 14 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 terminating the plan.
(4) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for whole effluent toxicity permit limit violations. *[62-4.241, 62-620.620(3)]*

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

Facility Mixing Zone Details (if applicable):

Pursuant to Chapter 62-4.244, FAC, the Permittee is hereby granted a mixing zone for iron, aluminum, copper, nickel, lead, zinc, pH, dissolved oxygen and acute toxicity at D-001 into the Amelia River. The Permittee's discharge shall not cause a violation of Chapter 62-302, FAC, Class III Water Quality Standards outside the boundaries of the mixing zone described below:

The largest mixing zone extends 616.8 square meters and 11.7 meters in length from the diffusers in a NW to SE orientation in the Intracoastal Waterway (Amelia River). The mixing zones comply with the physical requirements of Chapter 62-4.244, FAC.

The Permittee's discharge shall not cause a violation of Chapter 62-302, FAC, Class III Water Quality Standards for Marine waters outside the boundaries of the mixing zoned described below.

The mixing zones shall be the length in meters and area in square meters immediately downstream from the diffuser which is listed as follows:

Parameter	**Mixing Zone Downstream Length (m)**	**Mixing Zone Area (sq. m.)**
Total Recoverable Iron	10.5	561.7
Total Recoverable Aluminum	0.2	13.6
Total Recoverable Copper	0.6	34.9
Total Recoverable Nickel	2.6	149.9
Total Recoverable Lead	0.4	25.9
Total Recoverable Zinc	0.7	42.0
pH	0.1	4.0
DO (July – Sept.)	11.7	616.8
DO (Oct -June)	0.5	29.7
Acute WET	0.4	22.2

Parameter	**Mixing Zone Permit Limit**
Total Recoverable Iron (ug/L)	2.4
Total Recoverable Aluminum (ug/L)	3.0
Total Recoverable Copper (ug/L)	11.5
Total Recoverable Nickel (ug/L)	66.4
Total Recoverable Lead (ug/L)	27.2
Total Recoverable Zinc (ug/L)	410
pH (s.u.)	6.0 (min) – 8.5 (max)
DO (July – Sept.) * (mg/L)	1.5
DO (Oct -June) * (mg/L)	1.5
Acute WET (%)	30

* DO SSAC: July-September minimum DO of 3.2 mg/L, October-June minimum DO of 4.0 mg/L. Minimum DO allowable within a mixing zone of 1.5 mg/L was assigned to the effluent (Rule 62-4.244(3)(a)).

The mixing coordinates are indicated in this table at maximum tide condition:

Parameter	**Latitude**	**Longitude**
Total Recoverable Iron	30° 39' 50.57" N 30° 39' 50.40" N 30° 39' 52.15" N 30° 39' 52.33" N	81° 29' 02.59" W 81° 29' 02.98" W 81° 29' 04.05" W 81° 29' 03.66" W
Total Recoverable Aluminum	30° 39' 52.15" N 30° 39' 52.16" N 30° 39' 50.40" N 30° 39' 50.39" N	81° 29' 04.05" W 81° 29' 04.04" W 81° 29' 02.97" W 81° 29' 02.98" W
Total Recoverable Copper	30° 39' 50.39" N 30° 39' 52.15" N	81° 29' 02.98" W 81° 29' 04.05" W

	30° 39' 52.16" N 30° 39' 50.40" N	81° 29' 04.03" W 81° 29' 02.96" W
Total Recoverable Nickel	30° 39' 50.39" N 30° 39' 52.15" N 30° 39' 52.19" N 30° 39' 50.43" N	81° 29' 02.98" W 81° 29' 04.05" W 81° 29' 03.96" W 81° 29' 02.89" W
Total Recoverable Lead	30° 39' 52.15" N 30° 39' 52.16" N 30° 39' 50.40" N 30° 39' 50.39" N	81° 29' 04.05" W 81° 29' 04.03" W 81° 29' 02.96" W 81° 29' 02.98" W
Total Recoverable Zinc	30° 39' 52.15" N 30° 39' 52.16" N 30° 39' 50.40" N 30° 39' 50.39" N	81° 29' 04.05" W 81° 29' 04.03" W 81° 29' 02.95" W 81° 29' 02.98" W
pH	30° 39' 52.15" N 30° 39' 52.16" N 30° 39' 50.39" N 30° 39' 50.39" N	81° 29' 04.05" W 81° 29' 04.05" W 81° 29' 02.98" W 81° 29' 02.98" W
DO (July – Sept.)	30° 39' 50.57" N 30° 39' 50.40" N 30° 39' 52.15" N 30° 39' 52.33" N	81° 29' 02.59" W 81° 29' 02.98" W 81° 29' 04.05" W 81° 29' 03.66" W
DO (Oct -June)	30° 39' 52.15" N 30° 39' 52.16" N 30° 39' 50.40" N 30° 39' 50.39" N	81° 29' 04.05" W 81° 29' 04.03" W 81° 29' 02.96" W 81° 29' 02.98" W
Acute WET	30° 39' 50.39" N 30° 39' 52.15" N 30° 39' 52.16" N 30° 39' 50.40" N	81° 29' 02.98" W 81° 29' 04.05" W 81° 29' 04.04" W 81° 29' 02.97" W

The mixing zone allows for the minimum DO level in the mixing zone to be 1.5 mg/L. The DO concentration of the receiving water at the mixing zone boundary shall not be below the limits in the Site-Specific Alternative Criteria (SSACs) for Dissolved Oxygen established for Amelia River segment between the northern mouth of the river and the A1A crossing. Pursuant to the SSAC, Dissolved Oxygen at the mixing zone boundary shall not be less than 3.2 mg/L during low tide from July 1st through September 30th, and not below 4.0 mg/L during all other conditions. The 24-hr average shall be greater than or equal to 5.0 mg/L. Ambient monitoring by the facility is detailed in specific condition I.A.10.
[62-302.533(2)(a) 62-302.800(1) FAC]

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

Date	Monitoring	Parameter	Description	Result	Limit	Units	Statistical Base
10/31/2020	OUI-1	P 34621	2,4,6-trichlorophenol	120	53.5	ug/L	DD - Daily Maximum
1/31/2020	OUI-1	P 34621	2,4,6-trichlorophenol	65	53.5	ug/L	DD - Daily Maximum
11/30/2019	EFF-1	P 01119	Copper, Total Recoverable	12	11.5	ug/L	DD - Daily Maximum
12/31/2018	EFF-1	P 01119	Copper, Total Recoverable	12	11.5	ug/L	DD - Daily Maximum

Describe previous FYI and WQBEL study:

The last sampling inspection (CSI, CBI, XSI) was conducted 11/23/2015 and was noted as in

compliance.

Describe previous or current Enforcement Actions (including WLs):

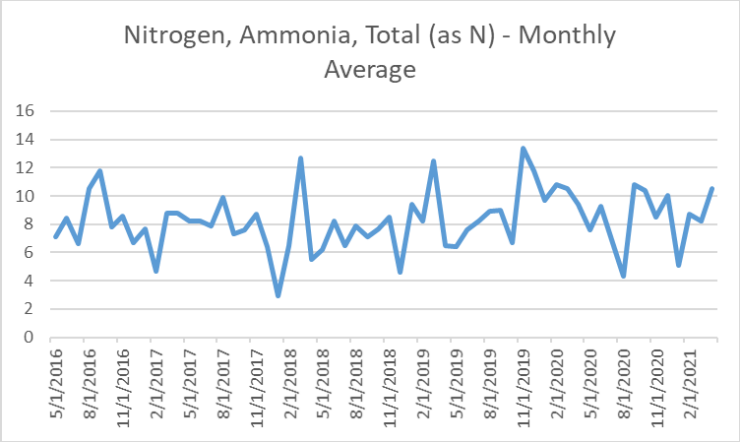
WL issued for SSO. Discharge of treated water occurred prior to outgoing tied due to electrical malfunction.

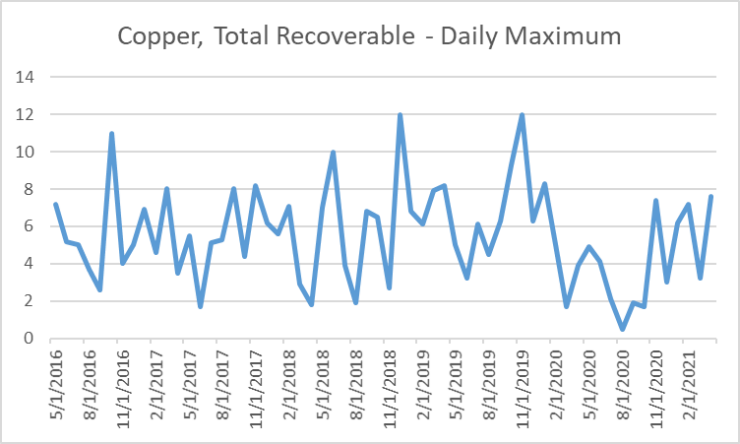
Describe any violations or problems noted in previous inspection:

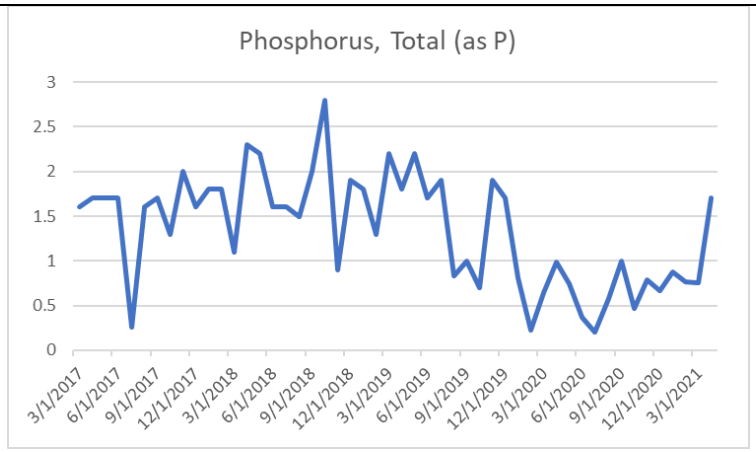
N/A

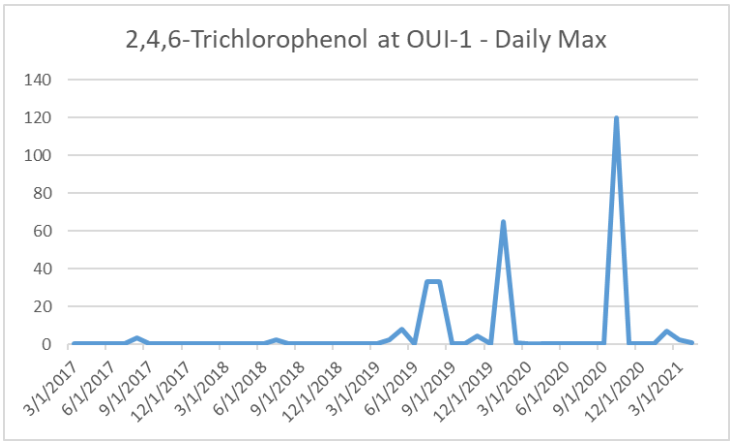
Discuss whether DMR trends within previous five years are improving or declining:

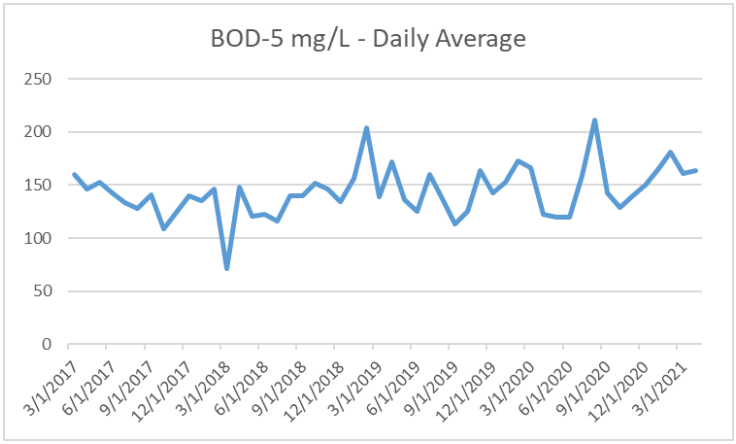
There does not appear to be any significant DMR trends occurring based on the data reported and depicted below.

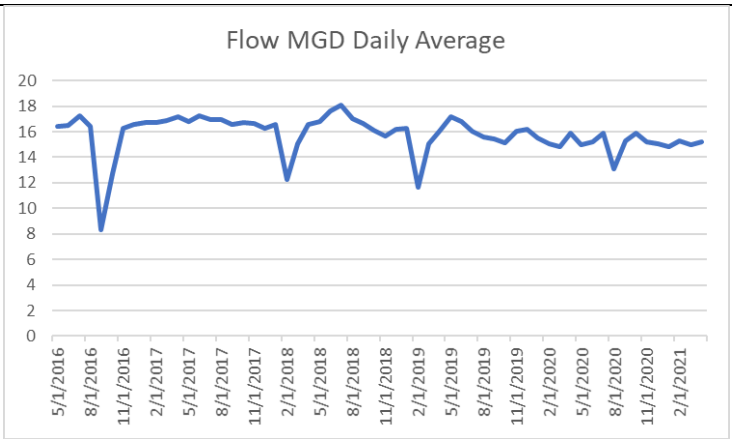





Phosphorus, Total (as P)
3
2.5
2
1.5
1
0.5
0
3/1/2017
6/1/2017
9/1/2017
12/1/2017
3/1/2018
6/1/2018
9/1/2018
12/1/2018
3/1/2019
6/1/2019
9/1/2019
12/1/2019
3/1/2020
6/1/2020
9/1/2020
12/1/2020
3/1/2021


2,4,6-Trichlorophenol at OUI-1 - Daily Max
140
120
100
80
60
40
20
0
3/1/2017
6/1/2017
9/1/2017
12/1/2017
3/1/2018
6/1/2018
9/1/2018
12/1/2018
3/1/2019
6/1/2019
9/1/2019
12/1/2019
3/1/2020
6/1/2020
9/1/2020
12/1/2020
3/1/2021


BOD-5 mg/L - Daily Average
250
200
150
100
50
0
3/1/2017
6/1/2017
9/1/2017
12/1/2017
3/1/2018
6/1/2018
9/1/2018
12/1/2018
3/1/2019
6/1/2019
9/1/2019
12/1/2019
3/1/2020
6/1/2020
9/1/2020
12/1/2020
3/1/2021



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

PART II: Sampling Event Information	
Date(s) sample collected: 7/19/2021	**Sampler(s):** Abhi Maturi, Malyssa Peabody, Shannon Taylor
Temperature (Deg C): 28	**pH (SU):** 7.46
Dissolved Oxygen (mg/L): 3.26	**Conductivity (umhos/cm):** 4,478
Total Residual Chlorine (mg/L): N/A	**Total Residual Chlorine - after Disinfection (mg/L):** N/A
Method of Chlorination: No chlorination	**Method of De-chlorination:** N/A
Flow During Sample Collection for each outfall (MGD): Unknown /16.13 per DMR	
Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day): 15.4264	
Describe Discharge during Sampling Event: ☐ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☒ **Other, please specify:** With outgoing tide	
Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here: During the event there was high heat and humidity. The phosphate filters continued to quickly become clogged and required several changes to get the sample.	

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.

- **Sediment Sampling**

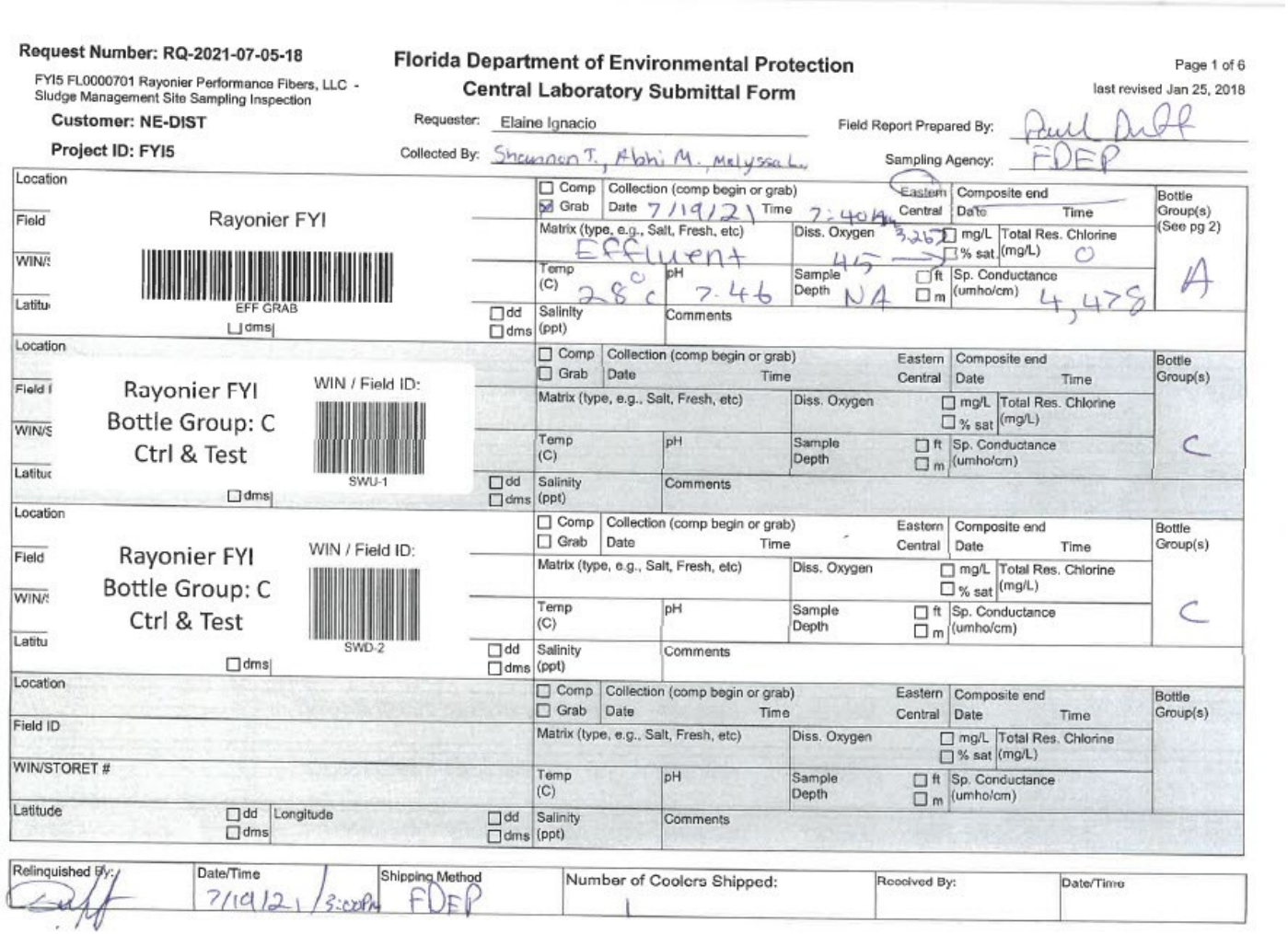
  Sediments were collected using a petite ponar dredge at all sampling stations. Sediment samples were analyzed for metals, organic constituents, pesticides, organic content and sediment grain size. The results from these analyses were compared with sediment quality assessment guidelines applicable to Florida coastal waters (Table 4. in MacDonald 1994). The range of sediment contaminant concentrations that fall below the threshold effects level (TEL) are not likely to be associated with adverse biological effects on aquatic organisms. The range of sediment contaminant concentrations that fall above the probable effects level (PEL) are usually or always associated with adverse biological effects. Within the range of concentrations delineated by the TEL (lower limit) and the PEL (upper limit), adverse biological effects are possible, but it is difficult to predict the occurrence, nature, and/or severity of these effects (MacDonald 1994).

- **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-2021-07-05-18

FYI5 FL0000701 Rayonier Performance Fibers, LLC - Sludge Management Site Sampling Inspection

Customer: NE-DIST

Project ID: FYI5

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 6
last revised Jan 25, 2018

Requester: Elaine Ignacio
Collected By: Shannon T., Abbi M., Melyssa L.
Field Report Prepared By: Paul Duff
Sampling Agency: FDEP

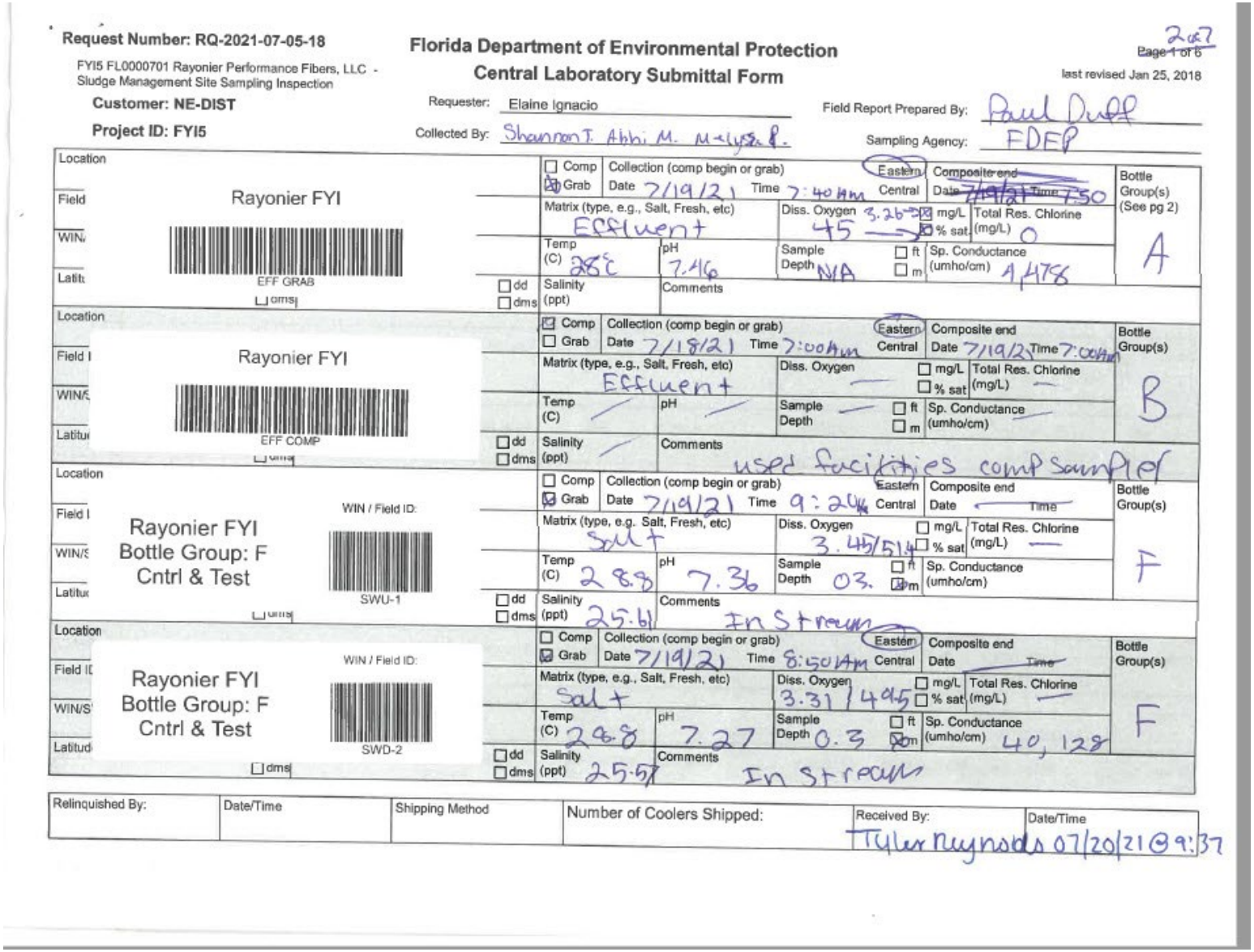
Location: Rayonier FYI — EFF GRAB
Field
WIN/S
Latitu
☐ dms
☐ Comp ☒ Grab | Collection (comp begin or grab) Date 7/19/21 Time 7:40 | Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A
Matrix (type, e.g., Salt, Fresh, etc): Effluent | Diss. Oxygen 3.26 → 4.5 | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L): 0
Temp (C): 28°C | pH: 7.46 | Sample Depth: NA ☐ ft ☐ m | Sp. Conductance (umho/cm): 4,478
☐ dd ☐ dms | Salinity (ppt) | Comments

Location: Rayonier FYI Bottle Group: C Ctrl & Test — WIN / Field ID: SWU-1
Field I
WIN/S
Latitu
☐ dms
☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s): C
Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)
Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)
☐ dd ☐ dms | Salinity (ppt) | Comments

Location: Rayonier FYI Bottle Group: C Ctrl & Test — WIN / Field ID: SWD-2
Field
WIN/S
Latitu
☐ dms
☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s): C
Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)
Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)
☐ dd ☐ dms | Salinity (ppt) | Comments

Location
Field ID
WIN/STORET #
Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms
☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)
Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)
Salinity (ppt) | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Paul Duff	7/19/21 3:00PM	FDEP	1		



Request Number: RQ-2021-07-05-18

FYI5 FL0000701 Rayonier Performance Fibers, LLC - Sludge Management Site Sampling Inspection

Customer: NE-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

2 of 7

~~Page 1 of 6~~

last revised Jan 25, 2018

Requester: Elaine Ignacio

Collected By: Shannon T. Abbi M. Mc[illegible] B.

Field Report Prepared By: Paul Duff

Sampling Agency: FDEP

Location	Collection	Matrix	Diss. Oxygen	Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	Salinity (ppt)	Total Res. Chlorine (mg/L)	Bottle Group(s)
Field: Rayonier FYI WIN: Latit: EFF GRAB	☐ Comp ☒ Grab Date 7/19/21 Time 7:40 AM Eastern / Central Composite end Date 7/19/21 Time 7:50	Effluent	3.26 mg/L 45 % sat	25°C	7.46	N/A ft / m	1,478		0	A
Field I: Rayonier FYI WIN/S: Latitu: EFF COMP	☒ Comp ☐ Grab Date 7/18/21 Time 7:00 AM Eastern / Central Composite end Date 7/19/21 Time 7:00 AM	Effluent						used facilities comp sampler		B
Field I: Rayonier FYI Bottle Group: F Cntrl & Test WIN / Field ID: WIN/S: Latitu: SWU-1	☐ Comp ☒ Grab Date 7/19/21 Time 9:24 AM Eastern / Central Composite end Date Time	Salt	3.45/51% mg/L / % sat	28.8	7.36	0.3 ft / m		25.6		F
Field ID: Rayonier FYI Bottle Group: F Cntrl & Test WIN / Field ID: WIN/S: Latitud: SWD-2	☐ Comp ☒ Grab Date 7/19/21 Time 8:50 AM Eastern / Central Composite end Date Time	Salt	3.31/49% mg/L / % sat	28.8	7.27	0.3 ft / m	40,128	25.5		F

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
				Tyler Reynolds	07/20/21 @ 9:37

Request Number: RQ-2021-07-05-18

FYI5 FL0000701 Rayonier Performance Fibers, LLC - Sludge Management Site Sampling Inspection

Customer: NE-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 6

last revised Jan 25, 2018

Requester: Elaine Ignacio

Collected By: ST/AM/ML/JP/KM

Field Report Prepared By: Paul Duff

Sampling Agency: FDEP

Location: Rayonier FYI — EFF GRAB

Comp / Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

☐ dd ☐ dms | Salinity (ppt) | Comments: Effluent Grab

Location: Rayonier FYI — FIELD BLANK

Comp / Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s): D

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

☐ dd ☐ dms | Salinity (ppt) | Comments: DI water

Location: Rayonier FYI Bottle Group: C Cntrl & Test — WIN / Field ID: SWU-1

Comp / Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s): C

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

☐ dd ☐ dms | Salinity (ppt) | Comments: In water upstream

Location: Rayonier FYI Bottle Group: C Ctrl & Test — WIN / Field ID: SWD-2

Comp / Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s): C

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

☐ dd ☐ dms | Salinity (ppt) | Comments: In water upstream

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	7/19/21 3:00PM	FEDEX	1		

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

Contract Manager: Trenetta Wilson/Magan Bowden (850) 245-8084/ (850) 245-8095
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins/TestAmerica Laboratories, Inc
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: Trenetta L. Brinkley-Wilson Contractor Approval By: Noel Savoie
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 7/20/2021
Means of Contact: Email

Task Assignment Number: OV251 Maximum Cost: **$108.75** Turnaround Time: 5 BD

Sample Delivery Date: 7/20/2021

Project Name/Description:
RQ-2021-07-05-18; FYI5 L0000701 Raynier

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	3	3 bottle		$33.75		$101.25
217/Sample Disposal Fee:	3				$2.50		$7.50
Total Number of Containers Shipped:	3					**Total:**	**$108.75**

QC Instructions:

Comments: Quote #66015426 - 0

Samples released to Contract Lab by: _____ Date/Time: 7/19/21 / 3:00 PM

Delivery Method: FEDEX Shipping

Samples Accepted by: _____ Date/Time _____

* **Please sign and return by email to** Trenetta.L.Wilson@floridaDEP.gov and Magan.Bowden@dep.state.fl.us

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

Contract Manager: Trenetta Wilson/Magan Bowden (850) 245-8084/ (850) 245-8095
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins/TestAmerica Laboratories, Inc
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: Trenetta L. Brinkley-Wilson Contractor Approval By: Noel Savoie
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 7/20/2021
Means of Contact: Email

Task Assignment Number: OV255 Maximum Cost: **$198.00** Turnaround Time: 10 BD

Sample Delivery Date: 7/20/2021

Project Name/Description:
RQ-2021-07-05-18; FY15 L0000701 Raynier

Deliverable Number/ Parameter Group/ Method	Sample Matrix	# of Samples	# of Containers	DEP ID #	Unit Cost	% Mark-up (if any)	Cost
120/Hexavalent Chromium / OV-CRVI-W 7196	W	4	4 bottles		$47.00		$188.00
217/Sample Disposal Fee:	4				$2.50		$10.00
Total Number of Containers Shipped:	4					**Total:**	$198.00

QC Instructions:

Comments:

Samples released to Contract Lab by: _____ Date/Time: 7/19/21 /3:00PM

Delivery Method: FEDEX Shipping

Samples Accepted by: _____ Date/Time _____

* **Please sign and return by email to** Trenetta.L.Wilson@floridaDEP.gov and Magan.Bowden@dep.state.fl.us

640-Tallahassee

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

Contract Manager: Devan Cobb-Williams/Magan Bowden (850) 245-8084/ (850) 245-8095
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins/TestAmerica Laboratories, Inc
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

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

Contractor Representatives Contacted: Noel Savoie

Date: 7/21/2021
Means of Contact: Email

Task Assignment Number: OV270 Maximum Cost: **$1,510.00** Turnaround Time: 15 BD

Sample Delivery Date: 7/21/2021

Project Name/Description:
RQ-2021-07-05-18 ; NE-DIST-2021-07-20-01; FYI5 FL0000701 Rayonier;TLH-2021-07-20-45

Deliverable Number/ Parameter Group/ Method	**Sample Matrix**	**# of Samples**	**# of Containers**	**DEP ID #**	**Unit Cost**	**% Mark-up (if any)**	**Cost**
2,3,7,8-TCDD/TCDF EPA Method 1613B	W	4	10 bottles	2263193, 2263196, 2263197, 2263199	$375.00		$1,500.00
217/Sample Disposal Fee:		4			$2.50		$10.00
Total Number of Containers Shipped:		10				**Total:**	**$1,510.00**

320-76588 Chain of Custody

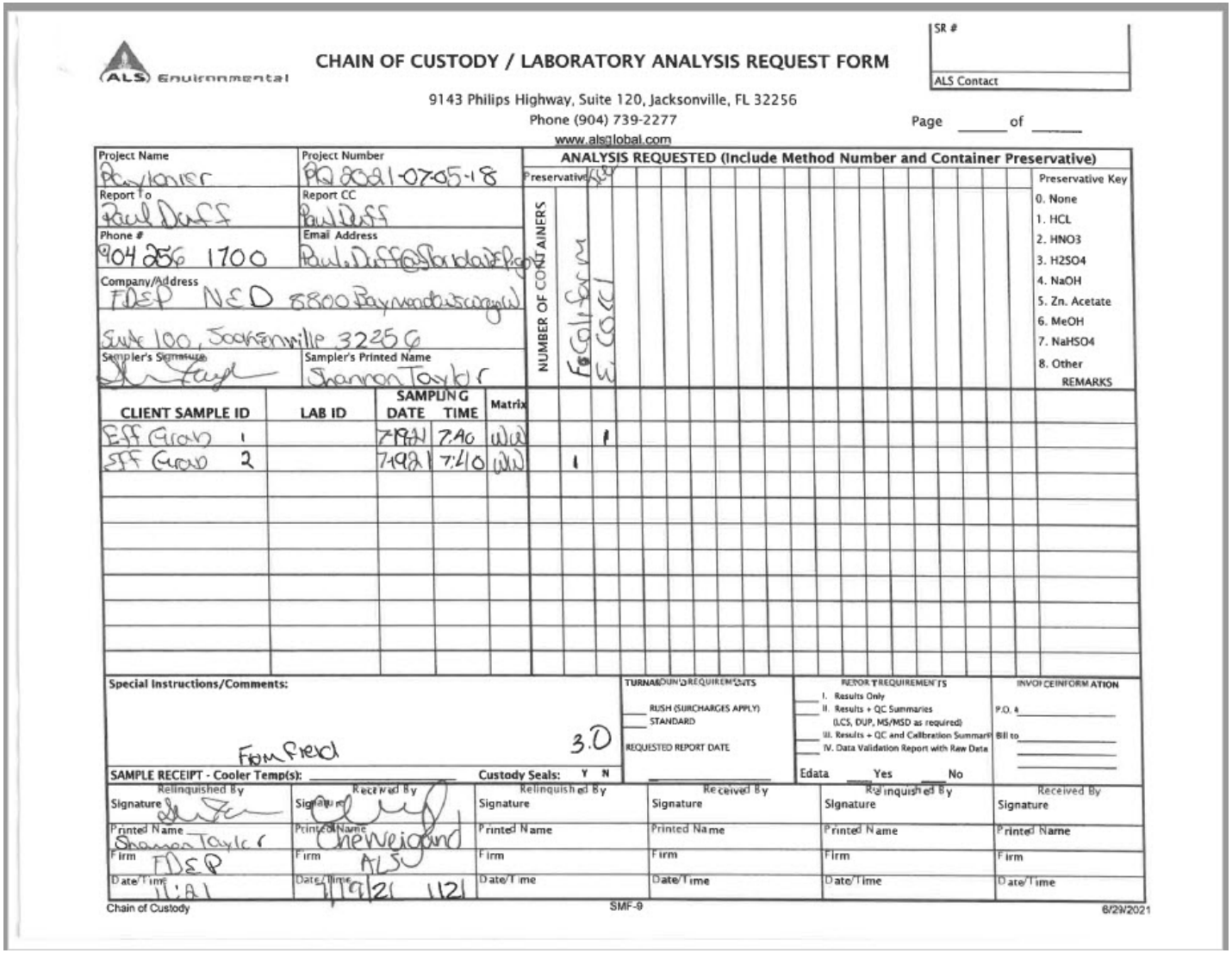
QC Instructions:

Comments: *Quote Number 68025726-0*

Samples released to Contract Lab by: _____ Date/Time: 7-21-21 16:06

Delivery Method: Hand Shipping

Samples Accepted by: _____ Date/
Time 7-21-21 1608 * **Please sign and return by email to** Devan.R.Cobb@FloridaDEP.gov and
Magan.Bowden@dep.state.fl.us Relq. 7-21-21 1645



ALS Environmental

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR #

ALS Contact

9143 Philips Highway, Suite 120, Jacksonville, FL 32256
Phone (904) 739-2277
www.alsglobal.com

Page _____ of _____

Project Name	Project Number
Rayonier	PO 2021-07-05-18
Report To	Report CC
Paul Duff	Paul Duff
Phone #	Email Address
904 256 1700	Paul.Duff@FloridaDEP.gov
Company/Address	
FDEP NED 8800 Baymeadows Way W Suite 100, Jacksonville 32256	
Sampler's Signature	Sampler's Printed Name
	Shannon Taylor

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative (#)

NUMBER OF CONTAINERS: Fecal form E. coli

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4; 8. Other

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	REMARKS
Eff Grab 1		7/9/21	7:40	WW	1
Eff Grab 2		7/9/21	7:40	WW	1

Special Instructions/Comments:

From Fred 3.0

TURNAROUND REQUIREMENTS: ___ RUSH (SURCHARGES APPLY); ___ STANDARD; REQUESTED REPORT DATE _____

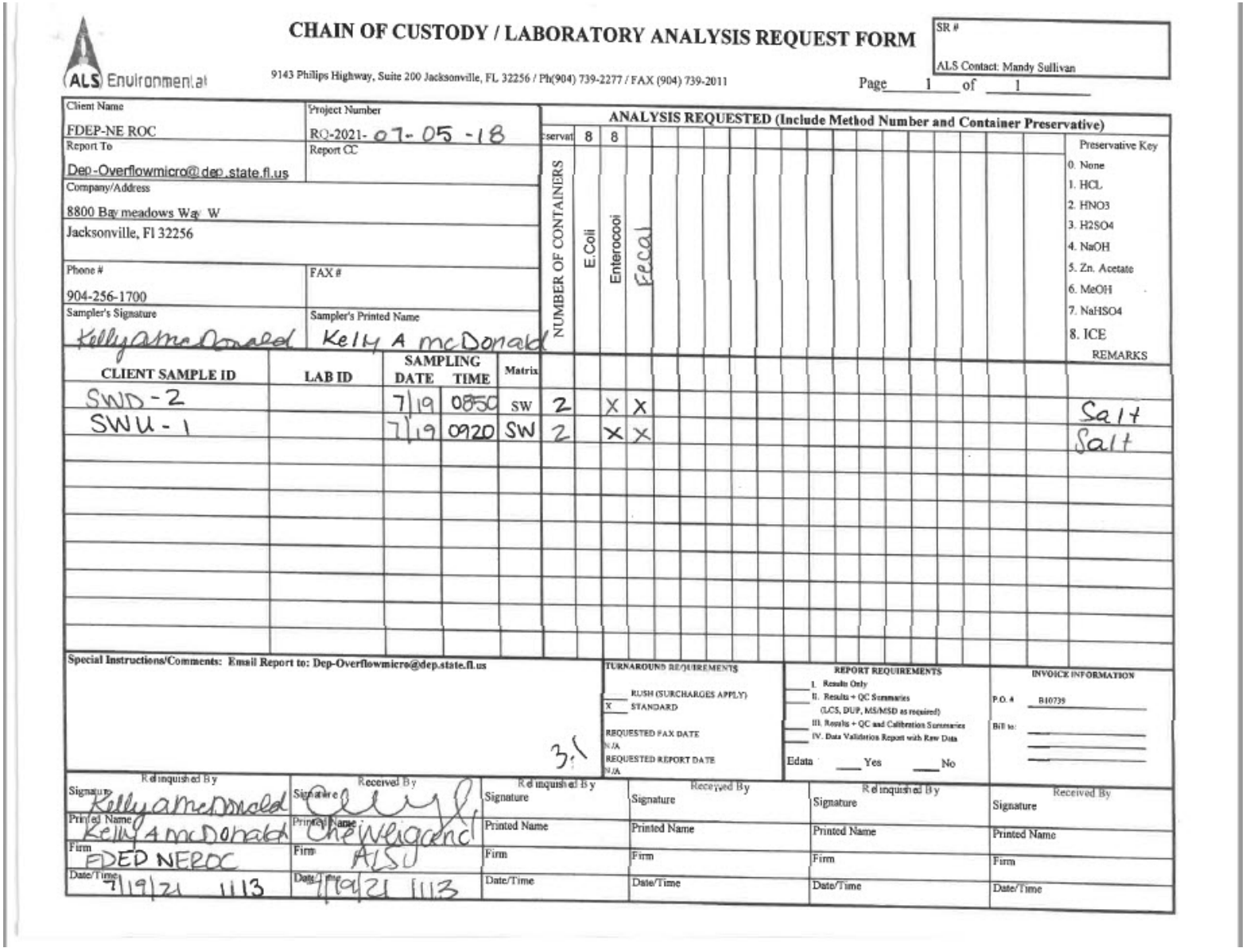
REPORT REQUIREMENTS: ___ I. Results Only; ___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required); ___ III. Results + QC and Calibration Summary; ___ IV. Data Validation Report with Raw Data; Edata ___ Yes ___ No

INVOICE INFORMATION: P.O. # _____ Bill to _____

SAMPLE RECEIPT - Cooler Temp(s): _____ Custody Seals: Y N

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Shannon Taylor	Printed Name: Chelweigand	Printed Name	Printed Name	Printed Name	Printed Name
Firm: FDEP	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 11:01	Date/Time: 7/9/21 1121	Date/Time	Date/Time	Date/Time	Date/Time

Chain of Custody SMF-9 6/29/2021



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

SR #

ALS Contact: Mandy Sullivan

Page 1 of 1

Client Name	Project Number
FDEP-NE ROC	RQ-2021- 07-05-18
Report To	Report CC
Dep-Overflowmicro@dep.state.fl.us	
Company/Address	
8800 Bay meadows Way W Jacksonville, Fl 32256	
Phone #	FAX #
904-256-1700	
Sampler's Signature	Sampler's Printed Name
Kelly a mcDonald	Kelly A mcDonald

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	E.Coli	Enterococci Fecal	REMARKS
SWD-2		7/19	0850	SW	2	X	X	Salt
SWU-1		7/19	0920	SW	2	X	X	Salt

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4; 8. ICE

Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us

3.1

TURNAROUND REQUIREMENTS: ___ RUSH (SURCHARGES APPLY); X STANDARD; REQUESTED FAX DATE N/A; REQUESTED REPORT DATE N/A

REPORT REQUIREMENTS: I. Results Only; II. Results + QC Summaries (LCS, DUP, MS/MSD as required); III. Results + QC and Calibration Summaries; IV. Data Validation Report with Raw Data; Edata ___ Yes ___ No

INVOICE INFORMATION: P.O. # 810739; Bill to:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Kelly a mcDonald	Signature:	Signature	Signature	Signature	Signature
Printed Name: Kelly A mcDonald	Printed Name: Chris Wiggand	Printed Name	Printed Name	Printed Name	Printed Name
Firm: FDEP NEROC	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 7/19/21 1113	Date/Time: 7/19/21 1113	Date/Time	Date/Time	Date/Time	Date/Time

Appendix D. Chemical Analysis of Effluent and Receiving Water

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:40	Effluent Grab	AGP/LN	Algal Growth Potential	2.55 A	mg DryWt/L	0.300	0.900
7/19/2021 7:40	Effluent Grab	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.00 U	mg DryWt/L	3.00	3.00
7/19/2021 7:40	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	65 I	µg/L	41	120
7/19/2021 7:40	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	45 U	µg/L	45	140
7/19/2021 7:40	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	30 U	µg/L	30	90
7/19/2021 7:40	Effluent Grab	Overflow	Carbonaceous Biochemical Oxygen Demand	60	mg/L	24	24
7/19/2021 7:40	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	2800	cfu/100 mL	100	100
7/19/2021 7:40	Effluent Grab	Overflow	ENTEROCOCCI-ENTEROLERT	2420 J	MPN/100 mL	1	1
7/19/2021 7:40	Effluent Grab	Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	60 L	LC50		
7/19/2021 7:40	Effluent Grab	Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	60 L	LC50		
7/19/2021 7:40	Effluent Grab	Metals	Nickel	13.9	µg/L	0.50	2.0
7/19/2021 7:40	Effluent Grab	Metals	Arsenic	1.74	µg/L	0.050	0.20
7/19/2021 7:40	Effluent Grab	Metals	Sodium	901	mg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Effluent Grab	Metals	Copper	10.2	µg/L	0.40	0.80
7/19/2021 7:40	Effluent Grab	Metals	Potassium	12.6	mg/L	0.30	1.2
7/19/2021 7:40	Effluent Grab	Metals	Mercury	0.99	ng/L	0.10	0.30
7/19/2021 7:40	Effluent Grab	Metals	Aluminum	1.17E+03	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Metals	Lead	2.18	µg/L	0.20	0.40
7/19/2021 7:40	Effluent Grab	Metals	Magnesium	31.6	mg/L	0.040	0.16
7/19/2021 7:40	Effluent Grab	Metals	Calcium	314	mg/L	0.75	3.0
7/19/2021 7:40	Effluent Grab	Metals	Silver	0.157	µg/L	0.010	0.040
7/19/2021 7:40	Effluent Grab	Metals	Zinc	131	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Metals	Cadmium	0.382	µg/L	0.020	0.080
7/19/2021 7:40	Effluent Grab	Metals	Iron	1.11E+03	µg/L	30	120
7/19/2021 7:40	Effluent Grab	Metals	Chromium	10.8	µg/L	0.40	1.6
7/19/2021 7:40	Effluent Grab	Nutrients	O-Phosphate-P	0.007 IJ	mg P/L	0.0040	0.010
7/19/2021 7:40	Effluent Grab	Nutrients	Fluoride	0.70	mg F/L	0.035	0.10
7/19/2021 7:40	Effluent Grab	Nutrients	Chloride	350 A	mg Cl/L	4.0	10
7/19/2021 7:40	Effluent Grab	Nutrients	NO2NO3-N	0.008 U	mg N/L	0.0080	0.020
7/19/2021 7:40	Effluent Grab	Nutrients	Organic Carbon	430	mg C/L	5.0	10

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:40	Effluent Grab	Nutrients	Sulfate	1.7E A	mg SO4/L	20	50
7/19/2021 7:40	Effluent Grab	Nutrients	Turbidity	290 A	NTU	1.0	1.3
7/19/2021 7:40	Effluent Grab	Nutrients	Total-P	1.7	mg P/L	0.025	0.25
7/19/2021 7:40	Effluent Grab	Nutrients	Color (true)	1.7E+03 AJ	PCU	50	120
7/19/2021 7:40	Effluent Grab	Nutrients	Total Alkalinity	319 A	mg CaCO3/L	0.65	2.5
7/19/2021 7:40	Effluent Grab	Nutrients	Kjeldahl Nitrogen	43	mg N/L	2.0	5.0
7/19/2021 7:40	Effluent Grab	Nutrients	Ammonia-N	12	mg N/L	0.40	1.0
7/19/2021 7:40	Effluent Grab	Overflow	2,3,7,8-TCDD	1.4 UJ	pg/L	1.4	11
7/19/2021 7:40	Effluent Grab	Overflow	Hexavalent Chromium	83 Q	µg/L	3.0	10
7/19/2021 7:40	Effluent Grab	Overflow	2,3,7,8-TCDF	0.75 U	pg/L	0.75	11
7/19/2021 7:40	Effluent Grab	Pesticides	Ametryn	0.67 U	ng/L	0.67	2.7
7/19/2021 7:40	Effluent Grab	Pesticides	Atrazine Desethyl	1.7 U	ng/L	1.7	6.7
7/19/2021 7:40	Effluent Grab	Pesticides	Cyanazine	3.6 U	ng/L	3.6	15
7/19/2021 7:40	Effluent Grab	Pesticides	Fenbuconazole	0.14 U	ng/L	0.14	0.56
7/19/2021 7:40	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.11 U	ng/L	0.11	0.45
7/19/2021 7:40	Effluent Grab	Pesticides	Fonofos	0.22 UJ	ng/L	0.22	0.89
7/19/2021 7:40	Effluent Grab	Pesticides	Hexazinone	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Metolachlor	0.39 U	ng/L	0.39	1.6
7/19/2021 7:40	Effluent Grab	Pesticides	Pendimethalin	1.1 U	ng/L	1.1	4.5
7/19/2021 7:40	Effluent Grab	Pesticides	Flumioxazin	2.0 U	ng/L	2.0	7.8
7/19/2021 7:40	Effluent Grab	Pesticides	Iprodione	0.67 U	ng/L	0.67	2.7
7/19/2021 7:40	Effluent Grab	Pesticides	Sulfentrazone	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Tebuconazole	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Terbufos	0.11 UJ	ng/L	0.11	0.45
7/19/2021 7:40	Effluent Grab	Pesticides	Terbuthylazine	5.8 J	ng/L	0.47	1.9
7/19/2021 7:40	Effluent Grab	Pesticides	Caffeine	8.4 U	ng/L	8.4	33
7/19/2021 7:40	Effluent Grab	Pesticides	Disulfoton	0.56 UJ	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Dithiopyr	0.20 U	ng/L	0.20	0.78
7/19/2021 7:40	Effluent Grab	Pesticides	Flutolanil	0.11 U	ng/L	0.11	0.45
7/19/2021 7:40	Effluent Grab	Pesticides	Metribuzin	3.6 U	ng/L	3.6	15
7/19/2021 7:40	Effluent Grab	Pesticides	Molinate	0.33 U	ng/L	0.33	1.3
7/19/2021 7:40	Effluent Grab	Pesticides	Pyriproxyfen	0.14 U	ng/L	0.14	0.56
7/19/2021 7:40	Effluent Grab	Pesticides	Simazine	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.11 U	ng/L	0.11	0.45

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:40	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.056 UJ	ng/L	0.056	0.22
7/19/2021 7:40	Effluent Grab	Pesticides	Demeton	1.7 UJ	ng/L	1.7	6.7
7/19/2021 7:40	Effluent Grab	Pesticides	Ethoprop	0.11 UJ	ng/L	0.11	0.45
7/19/2021 7:40	Effluent Grab	Pesticides	Malathion	0.39 UJ	ng/L	0.39	1.6
7/19/2021 7:40	Effluent Grab	Pesticides	Propiconazole	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
7/19/2021 7:40	Effluent Grab	Pesticides	Alachlor	0.28 U	ng/L	0.28	1.1
7/19/2021 7:40	Effluent Grab	Pesticides	Difenoconazole	0.67 U	ng/L	0.67	2.7
7/19/2021 7:40	Effluent Grab	Pesticides	Dimethenamid	0.11 U	ng/L	0.11	0.45
7/19/2021 7:40	Effluent Grab	Pesticides	EPTC	1.4 U	ng/L	1.4	5.6
7/19/2021 7:40	Effluent Grab	Pesticides	Naled	1.7 UJ	ng/L	1.7	6.7
7/19/2021 7:40	Effluent Grab	Pesticides	Parathion Ethyl	0.28 UJ	ng/L	0.28	1.1
7/19/2021 7:40	Effluent Grab	Pesticides	Prodiamine	0.20 U	ng/L	0.20	0.78
7/19/2021 7:40	Effluent Grab	Pesticides	Prometryn	0.22 U	ng/L	0.22	0.89
7/19/2021 7:40	Effluent Grab	Pesticides	Ibuprofen	0.020 U	µg/L	0.020	0.080
7/19/2021 7:40	Effluent Grab	Pesticides	Acetochlor	0.43 I	ng/L	0.28	1.1
7/19/2021 7:40	Effluent Grab	Pesticides	Diazinon	0.14 UJ	ng/L	0.14	0.56
7/19/2021 7:40	Effluent Grab	Pesticides	Fludioxonil	0.14 U	ng/L	0.14	0.56
7/19/2021 7:40	Effluent Grab	Pesticides	Metalaxyl	0.84 U	ng/L	0.84	3.3
7/19/2021 7:40	Effluent Grab	Pesticides	Mevinphos	1.2 UJ	ng/L	1.2	4.7
7/19/2021 7:40	Effluent Grab	Pesticides	Parathion Methyl	0.61 UJ	ng/L	0.61	2.5
7/19/2021 7:40	Effluent Grab	Pesticides	Atrazine	3.4 J	ng/L	0.28	1.1
7/19/2021 7:40	Effluent Grab	Pesticides	Azinphos Methyl	2.2 UJ	ng/L	2.2	8.9
7/19/2021 7:40	Effluent Grab	Pesticides	Azoxystrobin	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Bromacil	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Butylate	0.45 U	ng/L	0.45	1.8
7/19/2021 7:40	Effluent Grab	Pesticides	Ethion	0.17 UJ	ng/L	0.17	0.67
7/19/2021 7:40	Effluent Grab	Pesticides	Fipronil	0.28 U	ng/L	0.28	1.1
7/19/2021 7:40	Effluent Grab	Pesticides	Fenamiphos	0.56 UJ	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Fipronil Sulfide	0.17 U	ng/L	0.17	0.67
7/19/2021 7:40	Effluent Grab	Pesticides	Fluxapyroxad	0.11 U	ng/L	0.11	0.45
7/19/2021 7:40	Effluent Grab	Pesticides	Imazalil	0.84 U	ng/L	0.84	3.3
7/19/2021 7:40	Effluent Grab	Pesticides	Prometon	1.0 U	ng/L	1.0	3.9
7/19/2021 7:40	Effluent Grab	Pesticides	Carbophenothion	0.56 UJ	ng/L	0.56	2.2

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:40	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.28 UJ	ng/L	0.28	1.1
7/19/2021 7:40	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.14 U	ng/L	0.14	0.56
7/19/2021 7:40	Effluent Grab	Pesticides	Fipronil Sulfone	0.17 U	ng/L	0.17	0.67
7/19/2021 7:40	Effluent Grab	Pesticides	Oxadiazon	0.33 U	ng/L	0.33	1.3
7/19/2021 7:40	Effluent Grab	Pesticides	Myclobutanil	0.28 U	ng/L	0.28	1.1
7/19/2021 7:40	Effluent Grab	Pesticides	Norflurazon	0.56 U	ng/L	0.56	2.2
7/19/2021 7:40	Effluent Grab	Pesticides	Oxyfluorfen	0.17 U	ng/L	0.17	0.67
7/19/2021 7:40	Effluent Grab	Pesticides	Phorate	0.59 UJ	ng/L	0.59	2.3
7/19/2021 7:40	Effluent Grab	Pesticides	Pronamide	0.17 U	ng/L	0.17	0.67
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	cis-1,3-Dichloropropene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,2-Dichloroethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,3-Dichlorobenzene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	m,p-Xylene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,2-Dichloropropane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Dibromochloromethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Chloroethane	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Carbon tetrachloride	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,1,2-Trichloroethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,4-Dichlorobenzene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,1,1-Trichloroethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Bromodichloromethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Bromomethane	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Toluene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Bromoform	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	trans-1,3-Dichloropropene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Vinyl chloride	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,4-Dioxane	0.10 U	µg/L	0.10	0.40
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Benzene	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Tetrachloroethene	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Methylene chloride	10 U	µg/L	10	40
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	o-Xylene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Trichloroethene	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Trichlorofluoromethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Chloromethane	5.0 U	µg/L	5.0	20

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethene	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,2-Dichlorobenzene	5.0 U	µg/L	5.0	20
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Chlorobenzene	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Chloroform	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	Ethylbenzene	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethane	2.0 U	µg/L	2.0	8.0
7/19/2021 7:40	Effluent Grab	Nutrients	pH	7.46	SU		
7/19/2021 7:40	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	45	%Sat		
7/19/2021 7:40	Effluent Grab	Nutrients	Temperature	28	C		
7/19/2021 7:40	Effluent Grab	Nutrients	Specific Conductance	4478	umhos/cm		
7/19/2021 7:00	Effluent Composite	Nutrients	NO2NO3-N	0.012	mg N/L	0.0040	0.010
7/19/2021 7:00	Effluent Composite	Nutrients	Organic Carbon	430	mg C/L	5.0	10
7/19/2021 7:00	Effluent Composite	Nutrients	Ammonia-N	13	mg N/L	0.40	1.0
7/19/2021 7:00	Effluent Composite	Nutrients	Total-P	1.7	mg P/L	0.025	0.25
7/19/2021 7:00	Effluent Composite	Nutrients	Kjeldahl Nitrogen	44	mg N/L	2.0	5.0
7/19/2021 7:00	Effluent Composite	Nutrients	TSS	28	mg/L	2.0	10
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	µg/L	2.1	8.5
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Nitrobenzene	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Hexachloroethane	0.053 UJ	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.2 U	µg/L	3.2	13
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2,4-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2,6-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 UJ	µg/L	11	43
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Benzo(a)pyrene	0.027 UJ	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.027 UJ	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.3 U	µg/L	5.3	21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.027 UJ	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Pentachlorophenol	0.53 U	µg/L	0.53	2.1
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2,4-Dichlorophenol	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	4-Nitrophenol	11 U	µg/L	11	43
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Benzidine	11 UJ	µg/L	11	43
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Benzo(a)anthracene	0.027 U	µg/L	0.027	0.11

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Benzo(b)fluoranthene	0.027 UJ	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Fluorene	0.027 U	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Pyrene	0.11 U	µg/L	0.11	0.43
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2,4-Dinitrophenol	11 U	µg/L	11	43
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Acenaphthene	0.027 UJ	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Anthracene	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Benzo(k)fluoranthene	0.027 UJ	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.5
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2-Nitrophenol	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Dimethyl phthalate	0.21 U	µg/L	0.21	0.85
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Naphthalene	0.11 U	µg/L	0.11	0.43
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Phenanthrene	0.11 U	µg/L	0.11	0.43
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.053 UJ	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Acenaphthylene	0.027 U	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.5
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.027 UJ	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Fluoranthene	0.053 UJ	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Hexachlorobutadiene	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2-Chloronaphthalene	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2-Chlorophenol	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2,4-Dimethylphenol	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Hexachlorobenzene	0.053 UJ	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.053 UJ	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	µg/L	1.1	4.3
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Chrysene	0.027 U	µg/L	0.027	0.11
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Isophorone	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Phenol	2.3	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	2,4,6-Trichlorophenol	2.1	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.053 U	µg/L	0.053	0.21
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.053 U	µg/L	0.053	0.21

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:00	Effluent Composite	Priority Organic Pollutants	Di-n-octyl phthalate	0.053 UJ	µg/L	0.053	0.21
7/19/2021 8:50	Test Site	AGP/LN	Algal Growth Potential - Saltwater	5.65 A	mg DryWt/L	3.00	3.00
7/19/2021 8:50	Test Site	Chlorophyll/Grain Size/BOD	Sediment % Organic	6.1	% dry wt		
7/19/2021 8:50	Test Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	7.9	µg/L	1.5	4.5
7/19/2021 8:50	Test Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	3.7 I	µg/L	2.2	6.8
7/19/2021 8:50	Test Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	5.4 I	µg/L	2.1	6.2
7/19/2021 8:50	Test Site	Overflow	Fecal Coliforms-Membrane Filter	40	cfu/100 mL	2	2
7/19/2021 8:50	Test Site	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0
7/19/2021 8:50	Test Site	Overflow	ENTEROCOCCI-ENTEROLERT	52	MPN/100 mL	10	10
7/19/2021 8:50	Test Site	Metals	Cadmium	0.101	mg/Kg	0.0098	0.039
7/19/2021 8:50	Test Site	Metals	Sodium	8.59E+03	mg/L	50	200
7/19/2021 8:50	Test Site	Metals	Cadmium	0.080 U	µg/L	0.080	0.32
7/19/2021 8:50	Test Site	Metals	Copper	4.32	mg/Kg	0.25	0.98
7/19/2021 8:50	Test Site	Metals	Lead	7.19	mg/Kg	0.098	0.39
7/19/2021 8:50	Test Site	Metals	Nickel	5.6	mg/Kg	0.37	1.5
7/19/2021 8:50	Test Site	Metals	Zinc	15 U	µg/L	15	60
7/19/2021 8:50	Test Site	Metals	Chromium	2.5 I	µg/L	1.6	6.4
7/19/2021 8:50	Test Site	Metals	Lead	1.1 I	µg/L	0.80	1.6
7/19/2021 8:50	Test Site	Metals	Arsenic	7.47	mg/Kg	0.015	0.059
7/19/2021 8:50	Test Site	Metals	Aluminum	1.57E+03	µg/L	50	200
7/19/2021 8:50	Test Site	Metals	Iron	1.42E+03	µg/L	120	480
7/19/2021 8:50	Test Site	Metals	Chromium	19.0	mg/Kg	0.15	0.59
7/19/2021 8:50	Test Site	Metals	Zinc	25.0	mg/Kg	2.0	7.9
7/19/2021 8:50	Test Site	Metals	Magnesium	976	mg/L	4.0	16
7/19/2021 8:50	Test Site	Metals	Potassium	310	mg/L	30	120
7/19/2021 8:50	Test Site	Metals	Arsenic	3.96	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Metals	Copper	1.6 U	µg/L	1.6	3.2
7/19/2021 8:50	Test Site	Metals	Selenium	0.80 U	µg/L	0.80	3.2
7/19/2021 8:50	Test Site	Metals	Silver	0.026	mg/Kg	0.0037	0.015
7/19/2021 8:50	Test Site	Metals	Calcium	316	mg/L	0.30	1.2
7/19/2021 8:50	Test Site	Metals	Nickel	3.8 I	µg/L	2.0	8.0
7/19/2021 8:50	Test Site	Metals	Silver	0.040 U	µg/L	0.040	0.16
7/19/2021 8:50	Test Site	Nutrients	Fluoride	1.0	mg F/L	0.18	0.50
7/19/2021 8:50	Test Site	Nutrients	NO2NO3-N	0.028	mg N/L	0.0040	0.010

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 8:50	Test Site	Nutrients	Color (true)	84 J	PCU	2.5	6.0
7/19/2021 8:50	Test Site	Nutrients	Kjeldahl Nitrogen	0.91	mg N/L	0.16	0.40
7/19/2021 8:50	Test Site	Nutrients	Organic Carbon	11	mg C/L	1.0	2.0
7/19/2021 8:50	Test Site	Nutrients	Total-P	0.099	mg P/L	0.0040	0.010
7/19/2021 8:50	Test Site	Nutrients	Sulfate	2.1E+03	mg SO4/L	40	100
7/19/2021 8:50	Test Site	Nutrients	Total Alkalinity	97	mg CaCO3/L	0.65	2.5
7/19/2021 8:50	Test Site	Nutrients	Ammonia-N	0.076	mg N/L	0.0020	0.0050
7/19/2021 8:50	Test Site	Nutrients	Chloride	1.5E+04	mg Cl/L	40	100
7/19/2021 8:50	Test Site	Nutrients	O-Phosphate-P	0.026	mg P/L	0.0040	0.010
7/19/2021 8:50	Test Site	Nutrients	TSS	74	mg/L	3.0	10
7/19/2021 8:50	Test Site	Nutrients	Turbidity	19	NTU	0.10	0.13
7/19/2021 8:50	Test Site	Overflow	2,3,7,8-TCDD	0.14 UJ	pg/L	0.14	10
7/19/2021 8:50	Test Site	Overflow	Hexavalent Chromium	3.0 UQ	µg/L	3.0	10
7/19/2021 8:50	Test Site	Overflow	2,3,7,8-TCDF	0.070 U	pg/L	0.070	10
7/19/2021 8:50	Test Site	Pesticides	Ibuprofen	0.020 U	µg/L	0.020	0.080
7/19/2021 8:50	Test Site	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Diethyl phthalate	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	N-Nitrosodimethylamine	780 U	µg/kg	780	3.1E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Pentachlorophenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Phenanthrene	21 I	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,4-Dioxane	0.020 U	µg/L	0.020	0.080
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Benzidine	2.8E+03 U	µg/kg	2.8E+03	1.1+03E
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Benzo(k)fluoranthene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Isophorone	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Naphthalene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Acenaphthene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Acenaphthylene	14 U	µg/kg	14	58

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Anthracene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2-Chlorophenol	390 U	µg/kg	390	1.6E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2,4-Dichlorophenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2,4-Dimethylphenol	780 U	µg/kg	780	3.1E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	4-Nitrophenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Dimethyl phthalate	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Fluorene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Hexachlorobenzene	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Benzo(a)pyrene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Hexachlorobutadiene	390 U	µg/kg	390	1.6E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2-Chloronaphthalene	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Chrysene	20 I	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Di-n-butyl phthalate	780 U	µg/kg	780	3.1E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Di-n-octyl phthalate	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Pyrene	33 I	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2,4-Dinitrophenol	780 U	µg/kg	780	3.1E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2,6-Dinitrotoluene	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	780 U	µg/kg	780	3.1E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Butyl benzyl phthalate	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Nitrobenzene	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	390 U	µg/kg	390	1.6E
7/19/2021 8:50	Test Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	7.8E+03 U	µg/kg	7.8E+03	3.1E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Fluoranthene	36 I	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Hexachloroethane	390 U	µg/kg	390	1.6E+03
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2-Nitrophenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	2,4-Dinitrotoluene	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Benzo(a)anthracene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Phenol	130 U	µg/kg	130	520
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Benzo(b)fluoranthene	14 U	µg/kg	14	58
7/19/2021 8:50	Test Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	14 U	µg/kg	14	58

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 8:50	Test Site	Nutrients	pH	7.27	SU		
7/19/2021 8:50	Test Site	Nutrients	Temperature	28.8	C		
7/19/2021 8:50	Test Site	Nutrients	Specific Conductance	40128	umhos/cm		
7/19/2021 8:50	Test Site	Nutrients	Temperature	28.8	C		
7/19/2021 8:50	Test Site	Nutrients	Dissolved Oxygen %Sat	49.5	%Sat		
7/19/2021 8:50	Test Site	Nutrients	Sample Depth	0.3	m		
7/19/2021 8:50	Test Site	Nutrients	Sample Depth	0.3	m		
7/19/2021 8:50	Test Site	Nutrients	pH	7.27	SU		
7/19/2021 8:50	Test Site	Nutrients	Specific Conductance	40128	umhos/cm		
7/19/2021 8:50	Test Site	Nutrients	Dissolved Oxygen %Sat	49.5	%Sat		
7/19/2021 8:50	Test Site	Nutrients	% Solid	45.1	%	0.10	0.10
7/19/2021 9:20	Control Site	AGP/LN	Algal Growth Potential - Saltwater	3.06	mg DryWt/L	3.00	3.00
7/19/2021 9:20	Control Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	4.6 I	µg/L	1.6	5.0
7/19/2021 9:20	Control Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	2.9 I	µg/L	1.8	5.4
7/19/2021 9:20	Control Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	6.5	µg/L	1.2	3.6
7/19/2021 9:20	Control Site	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.0 K	% dry wt		
7/19/2021 9:20	Control Site	Overflow	Fecal Coliforms-Membrane Filter	66	cfu/100 mL	2	2
7/19/2021 9:20	Control Site	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0
7/19/2021 9:20	Control Site	Overflow	ENTEROCOCCI-ENTEROLERT	10	MPN/100 mL	10	10
7/19/2021 9:20	Control Site	Metals	Calcium	312	mg/L	0.22	0.90
7/19/2021 9:20	Control Site	Metals	Copper	1.6 U	µg/L	1.6	3.2
7/19/2021 9:20	Control Site	Metals	Lead	0.82	mg/Kg	0.098	0.39
7/19/2021 9:20	Control Site	Metals	Zinc	5.8 I	mg/Kg	2.0	7.9
7/19/2021 9:20	Control Site	Metals	Iron	1.12E+03	µg/L	90	360
7/19/2021 9:20	Control Site	Metals	Arsenic	3.72	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Metals	Chromium	2.71	mg/Kg	0.15	0.59
7/19/2021 9:20	Control Site	Metals	Copper	0.29 I	mg/Kg	0.25	0.98
7/19/2021 9:20	Control Site	Metals	Silver	0.0037 U	mg/Kg	0.0037	0.015
7/19/2021 9:20	Control Site	Metals	Zinc	15 U	µg/L	15	60
7/19/2021 9:20	Control Site	Metals	Cadmium	0.022 I	mg/Kg	0.0098	0.039
7/19/2021 9:20	Control Site	Metals	Nickel	0.64 I	mg/Kg	0.37	1.5
7/19/2021 9:20	Control Site	Metals	Nickel	2.0 U	µg/L	2.0	8.0
7/19/2021 9:20	Control Site	Metals	Silver	0.040 U	µg/L	0.040	0.16
7/19/2021 9:20	Control Site	Metals	Potassium	299	mg/L	15	60

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 9:20	Control Site	Metals	Sodium	8.38E+03	mg/L	25	100
7/19/2021 9:20	Control Site	Metals	Cadmium	0.080 U	µg/L	0.080	0.32
7/19/2021 9:20	Control Site	Metals	Selenium	0.80 U	µg/L	0.80	3.2
7/19/2021 9:20	Control Site	Metals	Arsenic	1.13	mg/Kg	0.015	0.059
7/19/2021 9:20	Control Site	Metals	Aluminum	1.29E+03	µg/L	50	200
7/19/2021 9:20	Control Site	Metals	Magnesium	970	mg/L	2.0	8.0
7/19/2021 9:20	Control Site	Metals	Lead	0.87 I	µg/L	0.80	1.6
7/19/2021 9:20	Control Site	Metals	Chromium	2.1 I	µg/L	1.6	6.4
7/19/2021 9:20	Control Site	Nutrients	Kjeldahl Nitrogen	0.76	mg N/L	0.16	0.40
7/19/2021 9:20	Control Site	Nutrients	Ammonia-N	0.062	mg N/L	0.0020	0.0050
7/19/2021 9:20	Control Site	Nutrients	Color (true)	86 J	PCU	2.5	6.0
7/19/2021 9:20	Control Site	Nutrients	Sulfate	2.0E+03	mg SO4/L	40	100
7/19/2021 9:20	Control Site	Nutrients	TSS	31	mg/L	3.0	10
7/19/2021 9:20	Control Site	Nutrients	Fluoride	1.0	mg F/L	0.18	0.50
7/19/2021 9:20	Control Site	Nutrients	Turbidity	17	NTU	0.10	0.13
7/19/2021 9:20	Control Site	Nutrients	Total-P	0.095	mg P/L	0.0040	0.010
7/19/2021 9:20	Control Site	Nutrients	NO2NO3-N	0.028	mg N/L	0.0040	0.010
7/19/2021 9:20	Control Site	Nutrients	Total Alkalinity	97	mg CaCO3/L	0.65	2.5
7/19/2021 9:20	Control Site	Nutrients	Organic Carbon	11	mg C/L	1.0	2.0
7/19/2021 9:20	Control Site	Nutrients	Chloride	1.4E+04	mg Cl/L	40	100
7/19/2021 9:20	Control Site	Nutrients	O-Phosphate-P	0.030	mg P/L	0.0040	0.010
7/19/2021 9:20	Control Site	Overflow	2,3,7,8-TCDF	0.078 U	pg/L	0.078	9.9
7/19/2021 9:20	Control Site	Overflow	Hexavalent Chromium	3.0 UQ	µg/L	3.0	10
7/19/2021 9:20	Control Site	Overflow	2,3,7,8-TCDD	0.19 UJ	pg/L	0.19	9.9
7/19/2021 9:20	Control Site	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
7/19/2021 9:20	Control Site	Pesticides	Ibuprofen	0.020 U	µg/L	0.020	0.080
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Acenaphthene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Benzidine	1.7E+03 U	µg/kg	1.7E+03	6.8E+03
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Benzo(b)fluoranthene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Nitrobenzene	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Phenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2,4-Dimethylphenol	470 U	µg/kg	470	1.9E+03
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2,4-Dinitrotoluene	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	4.7E+03 U	µg/kg	4.7E+03	1.9E+03
7/19/2021 9:20	Control Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	4-Nitrophenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Di-n-octyl phthalate	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Dimethyl phthalate	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	230 U	µg/kg	230	940
7/19/2021 9:20	Control Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Acenaphthylene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	470 U	µg/kg	470	1.9E+03
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Chrysene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Diethyl phthalate	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Hexachlorobenzene	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Hexachlorobutadiene	230 U	µg/kg	230	940
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Naphthalene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,4-Dioxane	0.020 U	µg/L	0.020	0.080
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2,4-Dichlorophenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2,6-Dinitrotoluene	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Benzo(k)fluoranthene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Fluoranthene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Isophorone	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Pentachlorophenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2-Nitrophenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Butyl benzyl phthalate	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Hexachloroethane	230 U	µg/kg	230	940
7/19/2021 9:20	Control Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Pyrene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Anthracene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Di-n-butyl phthalate	470 U	µg/kg	470	1.9E+03
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2-Chlorophenol	230 U	µg/kg	230	940
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Benzo(a)anthracene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Fluorene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2-Chloronaphthalene	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2,4-Dinitrophenol	470 U	µg/kg	470	1.9E+03
7/19/2021 9:20	Control Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Benzo(a)pyrene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	78 U	µg/kg	78	310
7/19/2021 9:20	Control Site	Priority Organic Pollutants	N-Nitrosodimethylamine	470 U	µg/kg	470	1.9E+03
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Phenanthrene	8.7 U	µg/kg	8.7	35
7/19/2021 9:20	Control Site	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 9:20	Control Site	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.50	2.0
7/19/2021 9:20	Control Site	Nutrients	Sample Depth	0.3	m		
7/19/2021 9:20	Control Site	Nutrients	Temperature	28.8	C		
7/19/2021 9:20	Control Site	Nutrients	Salinity	25.61	PPTh		
7/19/2021 9:20	Control Site	Nutrients	% Solid	74.9	%	0.10	0.10
7/19/2021 9:20	Control Site	Nutrients	Temperature	28.8	C		
7/19/2021 9:20	Control Site	Nutrients	Dissolved Oxygen %Sat	51.4	%Sat		
7/19/2021 9:20	Control Site	Nutrients	pH	7.36	SU		
7/19/2021 9:20	Control Site	Nutrients	Dissolved Oxygen %Sat	51.4	%Sat		
7/19/2021 9:20	Control Site	Nutrients	Sample Depth	0.3	m		
7/19/2021 9:20	Control Site	Nutrients	pH	7.36	SU		
7/19/2021 9:20	Control Site	Nutrients	Salinity	25.61	PPTh		
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:40	Trip Blank	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Metals	Mercury	0.10 U	ng/L	0.10	0.30
7/19/2021 7:20	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
7/19/2021 7:20	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Metals	Iron	30 U	µg/L	30	120
7/19/2021 7:20	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
7/19/2021 7:20	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
7/19/2021 7:20	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
7/19/2021 7:20	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
7/19/2021 7:20	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
7/19/2021 7:20	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
7/19/2021 7:20	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
7/19/2021 7:20	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
7/19/2021 7:20	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
7/19/2021 7:20	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:20	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
7/19/2021 7:20	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
7/19/2021 7:20	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
7/19/2021 7:20	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
7/19/2021 7:20	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
7/19/2021 7:20	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
7/19/2021 7:20	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	0.13
7/19/2021 7:20	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
7/19/2021 7:20	Field Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.10
7/19/2021 7:20	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
7/19/2021 7:20	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
7/19/2021 7:20	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
7/19/2021 7:20	Field Blank	Overflow	2,3,7,8-TCDF	0.048 U	pg/L	0.048	9.5
7/19/2021 7:20	Field Blank	Overflow	Hexavalent Chromium	3.0 UQ	µg/L	3.0	10
7/19/2021 7:20	Field Blank	Overflow	2,3,7,8-TCDD	0.15 UJ	pg/L	0.15	9.5
7/19/2021 7:20	Field Blank	Pesticides	Chlorpyrifos Methyl	0.047 U	ng/L	0.047	0.19
7/19/2021 7:20	Field Blank	Pesticides	Difenoconazole	0.57 U	ng/L	0.57	2.3
7/19/2021 7:20	Field Blank	Pesticides	Fipronil	0.24 U	ng/L	0.24	0.94
7/19/2021 7:20	Field Blank	Pesticides	Molinate	0.28 U	ng/L	0.28	1.1
7/19/2021 7:20	Field Blank	Pesticides	Prometon	0.85 U	ng/L	0.85	3.3
7/19/2021 7:20	Field Blank	Pesticides	Pyriproxyfen	0.12 U	ng/L	0.12	0.47
7/19/2021 7:20	Field Blank	Pesticides	Terbuthylazine	0.40 U	ng/L	0.40	1.6
7/19/2021 7:20	Field Blank	Pesticides	Disulfoton	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Ethion	0.14 U	ng/L	0.14	0.57
7/19/2021 7:20	Field Blank	Pesticides	Fipronil Sulfide	0.14 U	ng/L	0.14	0.57
7/19/2021 7:20	Field Blank	Pesticides	Fludioxonil	0.12 U	ng/L	0.12	0.47
7/19/2021 7:20	Field Blank	Pesticides	Malathion	0.33 U	ng/L	0.33	1.3
7/19/2021 7:20	Field Blank	Pesticides	Myclobutanil	0.24 U	ng/L	0.24	0.94
7/19/2021 7:20	Field Blank	Pesticides	Parathion Methyl	0.52 U	ng/L	0.52	2.1
7/19/2021 7:20	Field Blank	Pesticides	Prodiamine	0.17 U	ng/L	0.17	0.66
7/19/2021 7:20	Field Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
7/19/2021 7:20	Field Blank	Pesticides	Cyanazine	3.1 U	ng/L	3.1	12
7/19/2021 7:20	Field Blank	Pesticides	Diazinon	0.12 U	ng/L	0.12	0.47
7/19/2021 7:20	Field Blank	Pesticides	EPTC	1.2 U	ng/L	1.2	4.7

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:20	Field Blank	Pesticides	Hexazinone	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Metribuzin	3.1 U	ng/L	3.1	12
7/19/2021 7:20	Field Blank	Pesticides	Norflurazon	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Propiconazole	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Acetochlor	0.24 U	ng/L	0.24	0.94
7/19/2021 7:20	Field Blank	Pesticides	Ametryn	0.57 U	ng/L	0.57	2.3
7/19/2021 7:20	Field Blank	Pesticides	Atrazine	0.24 U	ng/L	0.24	0.94
7/19/2021 7:20	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.24 U	ng/L	0.24	0.94
7/19/2021 7:20	Field Blank	Pesticides	Fipronil Desulfinyl	0.12 U	ng/L	0.12	0.47
7/19/2021 7:20	Field Blank	Pesticides	Fipronil Sulfone	0.14 U	ng/L	0.14	0.57
7/19/2021 7:20	Field Blank	Pesticides	Fluxapyroxad	0.094 U	ng/L	0.094	0.38
7/19/2021 7:20	Field Blank	Pesticides	Fonofos	0.19 UJ	ng/L	0.19	0.76
7/19/2021 7:20	Field Blank	Pesticides	Parathion Ethyl	0.24 U	ng/L	0.24	0.94
7/19/2021 7:20	Field Blank	Pesticides	Pronamide	0.14 U	ng/L	0.14	0.57
7/19/2021 7:20	Field Blank	Pesticides	Simazine	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Bromacil	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Demeton	1.4 U	ng/L	1.4	5.7
7/19/2021 7:20	Field Blank	Pesticides	Dimethenamid	0.094 U	ng/L	0.094	0.38
7/19/2021 7:20	Field Blank	Pesticides	Flumioxazin	1.7 U	ng/L	1.7	6.6
7/19/2021 7:20	Field Blank	Pesticides	Imazalil	0.71 U	ng/L	0.71	2.8
7/19/2021 7:20	Field Blank	Pesticides	Metalaxyl	0.71 U	ng/L	0.71	2.8
7/19/2021 7:20	Field Blank	Pesticides	Mevinphos	0.99 U	ng/L	0.99	4.0
7/19/2021 7:20	Field Blank	Pesticides	Naled	1.4 UJ	ng/L	1.4	5.7
7/19/2021 7:20	Field Blank	Pesticides	Prometryn	0.19 U	ng/L	0.19	0.76
7/19/2021 7:20	Field Blank	Pesticides	Tebuconazole	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Azoxystrobin	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Butylate	0.38 U	ng/L	0.38	1.5
7/19/2021 7:20	Field Blank	Pesticides	Carbophenothion	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Dithiopyr	0.17 U	ng/L	0.17	0.66
7/19/2021 7:20	Field Blank	Pesticides	Fenbuconazole	0.12 U	ng/L	0.12	0.47
7/19/2021 7:20	Field Blank	Pesticides	Fluazifop-P-butyl	0.094 U	ng/L	0.094	0.38
7/19/2021 7:20	Field Blank	Pesticides	Oxadiazon	0.28 U	ng/L	0.28	1.1
7/19/2021 7:20	Field Blank	Pesticides	Oxyfluorfen	0.14 U	ng/L	0.14	0.57
7/19/2021 7:20	Field Blank	Pesticides	Pendimethalin	0.94 U	ng/L	0.94	3.8

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:20	Field Blank	Pesticides	Ibuprofen	0.020 U	µg/L	0.020	0.080
7/19/2021 7:20	Field Blank	Pesticides	Alachlor	0.24 U	ng/L	0.24	0.94
7/19/2021 7:20	Field Blank	Pesticides	Atrazine Desethyl	1.4 U	ng/L	1.4	5.7
7/19/2021 7:20	Field Blank	Pesticides	Ethoprop	0.094 U	ng/L	0.094	0.38
7/19/2021 7:20	Field Blank	Pesticides	Fenamiphos	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Flutolanil	0.094 U	ng/L	0.094	0.38
7/19/2021 7:20	Field Blank	Pesticides	Metolachlor	0.33 U	ng/L	0.33	1.3
7/19/2021 7:20	Field Blank	Pesticides	Phorate	0.50 U	ng/L	0.50	2.0
7/19/2021 7:20	Field Blank	Pesticides	Azinphos Methyl	1.9 U	ng/L	1.9	7.6
7/19/2021 7:20	Field Blank	Pesticides	Caffeine	7.1 U	ng/L	7.1	28
7/19/2021 7:20	Field Blank	Pesticides	Carfentrazone Ethyl	0.094 U	ng/L	0.094	0.38
7/19/2021 7:20	Field Blank	Pesticides	Iprodione	0.57 U	ng/L	0.57	2.3
7/19/2021 7:20	Field Blank	Pesticides	Sulfentrazone	0.47 U	ng/L	0.47	1.9
7/19/2021 7:20	Field Blank	Pesticides	Terbufos	0.094 U	ng/L	0.094	0.38
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Fluoranthene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.47 U	µg/L	0.47	1.9
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	4-Nitrophenol	9.4 U	µg/L	9.4	38
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Acenaphthene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Anthracene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Diethyl phthalate	1.9 U	µg/L	1.9	7.5
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8 U	µg/L	2.8	11
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Phenol	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Fluorene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Isophorone	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Phenanthrene	0.094 U	µg/L	0.094	0.38

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	9.4 U	µg/L	9.4	38
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Pyrene	0.094 U	µg/L	0.094	0.38
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.4 U	µg/L	9.4	38
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	4.7 U	µg/L	4.7	19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.94 U	µg/L	0.94	3.8
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Naphthalene	0.094 U	µg/L	0.094	0.38
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Benzidine	9.4 U	µg/L	9.4	38
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Chrysene	0.024 U	µg/L	0.024	0.094

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	µg/L	1.9	7.5
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	µg/L	1.9	7.5
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.19 U	µg/L	0.19	0.75
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,4-Dioxane	0.020 U	µg/L	0.020	0.080
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 U	µg/L	0.024	0.094
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Bromoform	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.50	2.0
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.047 U	µg/L	0.047	0.19
7/19/2021 7:20	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.047 U	µg/L	0.047	0.19