Biological Assessment of Military Point Industrial Lagoon Bay County NPDES # FL0002631 Sampled April 29 and 30, May 1 and 3, 2019

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

Iron was detected in the effluent composite sample at a level that exceeded the 1,100 µg/L permit limit which, because of the allowable surface water mixing zone, is greater than the Class III Predominantly Marine Water Quality Criterion (62-302.530(38), Florida Administrative Code (F.A.C.). Effluent aluminum, copper, and turbidity were detected at levels that complied with the respective permit limits however, because of the allowable surface water mixing zones, levels of all three parameters were greater than the Class III Marine Water Quality Criteria (62-302.530, F.A.C.). Several organic constituents were detected in the effluent sample, but most were at levels between the laboratory method detection limit (MDL) and practical quantitation limit (PQL). The effluent 2,3,7,8-tetrachlorodibenzo-p-dioxin was greater than the permit limit and was detected in the field blank. Some nutrient concentrations (ortho-phosphate, total phosphorus, ammonia, total Kjeldahl nitrogen, organic nitrogen (calculated), total nitrogen (calculated), total organic carbon and turbidity) were higher in the effluent sample than the Control, Test, and two additional site (Nutrient 1 and Nutrient 2) samples. For comparative purposes only, the effluent grab single sample values for total phosphorus and total nitrogen (calculated) were 63 times and 14 times greater than the Estuary-Specific Numeric Nutrient Criteria (NNC) annual geometric mean values for the region, respectively. Despite the greater values measured in the effluent samples, there was no detectable nutrient enrichment from the effluent in the Test, Control and both Nutrients site samples.

Facility Overview

The Military Point Industrial Lagoon is a biological treatment lagoon which receives wastewater from WestRock paper mill and Kraton Chemical Company. The wastewater permit allows for a surface water mixing zone in St. Andrew Bay for the following parameters at maximum concentrations greater than water quality criteria: aluminum 10,000 vs 1500 µg/L, copper 21 vs 3.7 µg/L, iron 1100 vs 300 µg/L, nickel 28 vs 8.3 µg/L, turbidity 80 vs 29 NTU above background, transparency using color as a surrogate parameter based upon flow, and whole effluent toxicity IC25 ≥ 8.7% vs 100% effluent. 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.

Receiving waters for this facility fall under the Estuary-Specific Numeric Interpretations of the Numeric Nutrient Criteria (NNC) for the East Bay (WBIDs 1061D and 1061F) within the St Andrew Bay region (62-302.532(1)(N)(1), F.A.C.). The NNC, expressed as annual geometric means, are 0.016 mg/L total phosphorus, 0.33 mg/L total nitrogen, and 3.9 µg/L chlorophyll *a*. This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent grab samples were collected from monitoring site EFF-1, located at the edge of the Lagoon prior to diffuser discharge, on April 30, 2019. Effluent composite samples for toxicity testing were collected from EFF-1 on April 29, May 1, and May 3, 2019. Chemical comparisons were made between a Test Site located approximately 50 meters southeast of D-001 and a Control Site located approximately 1.2 kilometers west of D-001 and 450 meters northeast of Palmetto Point. Two additional sites within WBID 1061D were sampled on April 30, 2019 for nutrients analysis only. Nutrient 1 (NNC1) was located approximately 3.76 kilometers southeast of D-001, approximately 250 meters northwest of Tyndall Dupont Bridge and Nutrient 2 (NNC2) was located approximately 3.22 kilometers northwest of D-001 and 400 meters south of Bunker Point. (Figure 1).

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.

All references to 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.

The following were involved in this investigation: Nathan Mulkey and Stopher Slade (DEP Northwest Regional Operation Center, Pensacola), Larry Couch and Corinna Clanton (Northwest District Office, Pensacola), and DEP Laboratory in Tallahassee. The report was reviewed by District representatives and the Point Source Studies Review Committee (Mike Tanski, Nancy Ross, and Adrienne Pennington).

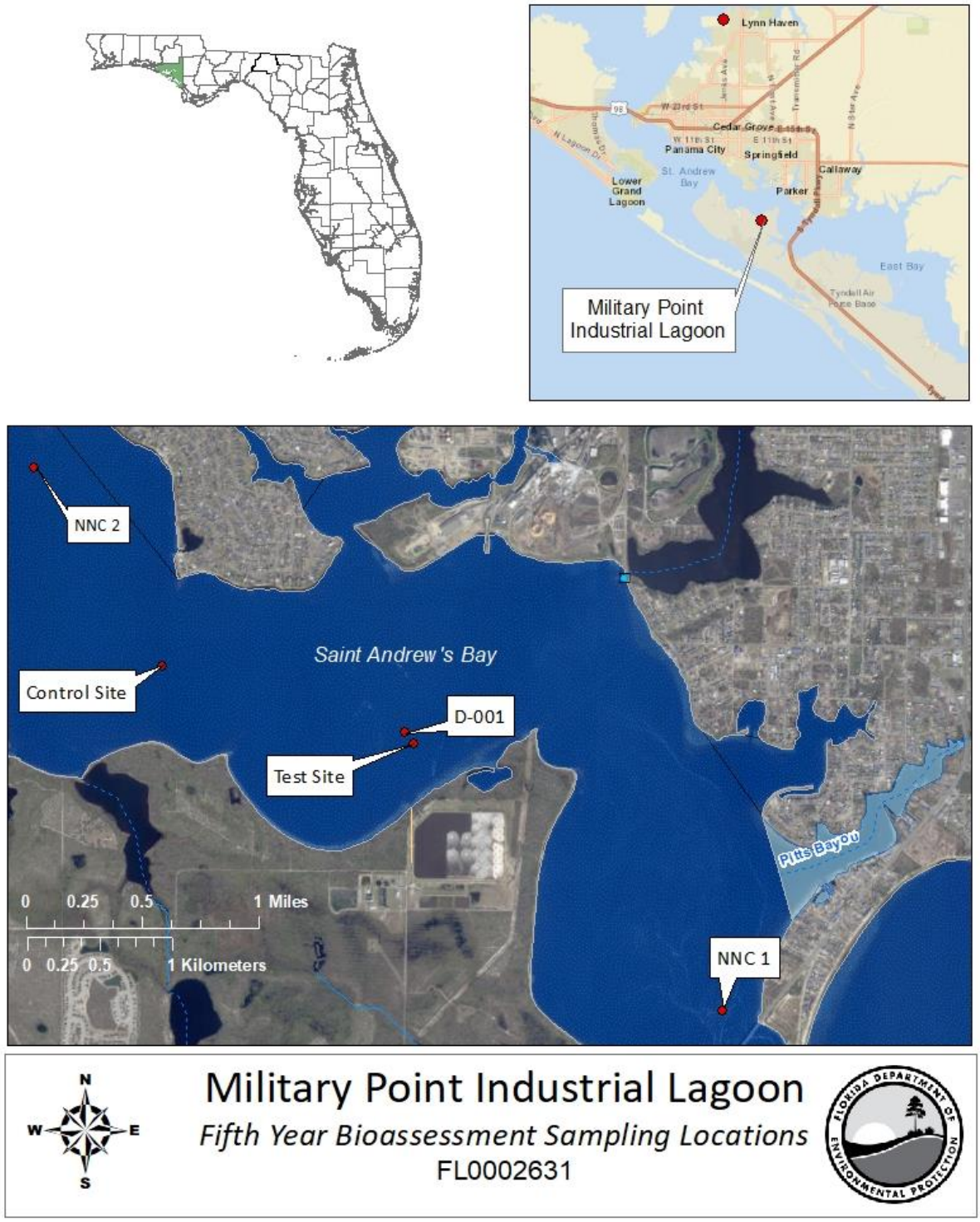


Figure 1. Map of Facility and Sampling Locations

Results

Physical and Chemical Parameters / Site Characterization (See Table 1 and Appendices C, D, and E)

- The shoreline in the vicinity of Military Point consists mostly of sandy low gradient beach, whereas the shoreline near the Nutrient 1 and 2 sites is a mixture of residential and industrial development.

- The measured pH of the effluent complied with the effluent permit limit. The measured pH of the effluent and the four ambient sites complied with the Class III Marine Water Quality Criterion (62-302.530(52)(c), F.A.C.).

- The calculated percent saturation dissolved oxygen in the effluent complied with the effluent permit limit. For comparative purposes only, the single measurements of percent saturation dissolved oxygen in the effluent and at the four ambient sites met the dissolved oxygen level (62.302.533(2)(a), F.A.C.) and Class III Marine Water Quality Criterion (62-302.530(30), F.A.C.).

Analytical Water Chemistry (See Table 2 and Appendix E)

- The turbidity value of the effluent grab sample complied with the effluent mixing zone based permit limit. The turbidity of the effluent grab sample was greater than 29 NTU above the turbidity measured in all 4 ambient site samples and therefore, for this event, effluent turbidity was greater than the Class III Marine Water Quality Criterion (62-302.530, F.A.C.).

- Absorbable organic halides measured in the effluent composite sample complied with the permit limit. The absorbable organic halides sample was analyzed by Eurofins TestAmerica, Savannah, Georgia.

- Total phosphorus and total Kjeldahl nitrogen were detected in the Test Site, Control Site, and both Nutrient site samples at levels that were between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit (PQL). Total ammonia was detected in the Test Site, Control Site, and Nutrient 2 site samples at levels that were between the MDL and PQL and detected in the Nutrient 1 site sample above PQL.

- Ortho-phosphate, total phosphorus, ammonia, total Kjeldahl nitrogen, organic nitrogen (calculated), total nitrogen (calculated), total organic carbon, carbonaceous biochemical oxygen demand (CBOD), turbidity, total suspended solids (TSS), color, and alkalinity ranged between approximately 4 times to over 433 times greater, in the effluent sample than the respective values measured in the ambient site samples. Despite the greater values measured in the effluent samples, the analytical chemistry of the Test Site samples was similar to that of the samples for the Control Site and both Nutrient sites.

- NNC are for Class III waters and numerical values are expressed as annual geometric means. This FYI event only provides single sample results. For comparative purposes only, the effluent grab single sample values for total phosphorus and total nitrogen (calculated) were 63 times and 14 times greater than the Estuary-Specific NNC values for the region, respectively. All 4 ambient sample values for total phosphorus and total nitrogen (calculated) were less than the Estuary-Specific NNC values for the region.

- Chlorophyll a (corrected) was not detected in the effluent grab sample but was detected at a low level in all four ambient site samples. For comparative purposes only, the ambient, single sample values for chlorophyll a (corrected) were less than the Estuary-Specific NNC value for the region.

- Carbonaceous biochemical oxygen demand (CBOD) results were J-qualified due to a lab control failure. The ortho-phosphate field blank sample was analyzed beyond the hold time and the result was Q-qualified. Results for analytical chemistry samples received by the laboratory outside of the acceptable temperature range were Y-qualified.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed April 30 through May 9, 2019.

- Chronic bioassay results are reported as the 25% Inhibition Concentration (IC25). 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.

- During the chronic definitive bioassay, the effluent composite sample IC25 for the water flea, *Ceriodaphnia dubia*, was calculated as 22.7% effluent and the IC25 for the fish, *Pimephales promelas*, was calculated as 100% effluent. The results complied with effluent mixing zone based permit limits.

- There was 100% survival of the *C. dubia* and 90% survival of the *P. promelas* in the 100% effluent sample.

- It should be noted that the toxicity of the effluent indicated by the low IC25 value for *C. dubia* can be partially attributed to the concentration of aluminum in the sample. The aluminum concentration of 3,300 µg/L measured in this sampling event exceeded the freshwater criterion but met the permit limit. This aluminum concentration also exceeded the maximum acceptable toxicant concentration (MATC) reported for reproductive effects on *C. dubia* of 1,600 - 1,900 µg/L of aluminum (McCauley, D. J., et al. 1986).

- 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 E)

- Iron was detected in the effluent composite sample at levels that exceeded the mixing zone based permit limit and the Class III Marine Water Quality Criterion (62-302.530(38), F.A.C.). Aluminum and copper were detected in the effluent composite sample at levels that complied with the mixing zone based permit limit but exceeded the Class III Marine Water Quality Criteria (62-302.530, F.A.C.). All other metals detected in the effluent composite sample were present at levels that complied with effluent permit limits and Class III Marine Quality Criteria (62-302.530, F.A.C.).

- All metals in Control and Test Site grab samples were either undetected or detected at levels that complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.).

- In each analyte's respective field blank, mercury was detected between the MDL and PQL and copper was detected above PQL.

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata*, was used to determine the Algal Growth Potential (AGP) of the effluent. The analytical chemistry suggests that the effluent is nitrogen-limited.

- An aliquot of the AGP sample was salinity adjusted from an apparent salinity of approximately 1.04 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 saltwater species, *Dunaliella tertiolecta*, which was used to perform the Marine Algal Assay Bottle Test (Malone et al. 1974).

- The effluent AGP result of 3.26 A is less than the AGP range (6.10 to 20.0 mg dry wt/L) suggested to be representative of high productivity for freshwater (Miller et al. 1978).

- The salinity adjusted effluent AGP is 29.4 mg dry wt/L. Raschke and Shultz (1987) determined that AGP values above 10.0 mg dry weight/L, which represents a "problem" threshold for marine receiving waters, imply nutrient enrichment.

- The AGP for the Test Site, Control Site, and both Nutrient sites was 3.0 UY (U - material was analyzed for but not detected, the value reported is the minimum detection limit; Y-improper preservation) mg dry wt/L of the saltwater species *Dunaliella tertiolecta.* The analytical chemistry suggests that the Control Site, Test Site, and both Nutrient sites are orthophosphate limited (Miller et al. 1978).

Organic Constituents (See Table 5 and Appendix E)

- Acetophenone and o-Cresol were detected in the effluent grab sample and undetected in the Test and Control Site samples. Simazine, an herbicide, was detected in the Test Site sample between the MDL and PQL.

- In the effluent grab sample, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) were detected at concentrations between the MDL and PQL. Effluent TCDD was greater than the mixing zone based permit limit. TCDD was detected in the field blank. For comparative purposes only, the levels of 2,4,6-trichlorophenol, 2,4-diclorophenol, and 2,4-dimethylphenol in the effluent single sample were below the Class III Marine Water Quality Criteria (62-302.530, F.A.C.), which are expressed as annual averages.

Literature Cited

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.

McCauley, D. J., et al., 1986. Acute and Chronic Toxicity of Aluminum to *Ceriodaphnia dubia* at Various pHs. Center for Lake Superior Environmental Studies, University of Wisconsin, Superior, Wisconsin. 15p.

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

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

Table 1. Measured field parameters

Effluent limits, Class III Marine Water Quality Criteria, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	EFF-1 Composite	EFF-1 Grab	MP Test	MP Control	Nutrient 1	Nutrient 2
Sample Depth	m	-	-	-	-	0.3	0.3	0.3	0.3
Temperature	C	-	-	-	31.2[1]	25.1	24.5	25.0	24.5
pH	SU	6.5 - 8.5	6.5 - 8.5 s	-	7.5[1]	8.0	7.9	7.9	8.0
Specific Conductance	µmhos/cm	-	-	-	-	30,722	29,005	26,255	31,955
Salinity	ppth	-	-	0 c	0 c	20 c	20 c	20 c	20 c
Dissolved Oxygen	mg/L	-	-	-	8.3[1]	8.0	7.9	7.9	8.1
Dissolved Oxygen	% saturation	≥ 42[2]	≥ 90	-	112.1	108.5 c	105.4 c	104.5 c	108.4 c
Flow	MGD	-	-	20.3[1]	-	-	-	-	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - value calculated
s - single sample
1 - Data provided by the facility.
2 - The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values 62-302.533(2)(a), F.A.C.

Table 2. Analytical water chemistry and toxicological data

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	EFF-1 Composite	EFF-1 Grab	MP Test	MP Control	Nutrient 1	Nutrient 2
Ortho-phosphate	mg P/L	-	-	-	0.55 Y	0.004 UY	0.004 UY	0.004 UY	0.004 UY
Total Phosphorus	mg P/L	0.016[3]	Report	-	1.0	0.008 IY	0.007 IY	0.008 IY	0.008 IY
Total Ammonia	mg N/L	-	-	-	1.3	0.003 IY	0.004 IY	0.007 Y	0.004 IY
Total Kjeldahl Nitrogen	mg N/L	-	-	-	4.5	0.30 IY	0.28 IY	0.30 IY	0.33 IY
Organic Nitrogen	mg N/L	-	-	-	5.8 c	0.33 c	0.32 c	0.37 c	0.37 c
Total Nitrogen	mg/L	0.33[3]	Report	-	4.5 c	0.31c	0.31 c	0.33 c	0.35 c
Total Organic Carbon	mg N/L	-	-	-	130	4.8 Y	4.8 Y	5.1 Y	4.8 Y
Chlorophyll *a* - Corrected	µg/L	3.9[3]	-	-	4.1 U	2.6 Y	2.4 IY	2.0 IY	2.2 IY
Phaeophytin	µg/L	-	-	-	4.5 U	0.90 UY	1.0 UY	0.90 UY	0.90 UY
CBOD, 5 day, N - inhibited	mg/L	-	Report	12 AJ	-	0.88 IJY	0.78 IJY	-	-
Total Suspended Solids	mg/L	-	Report	24	-	3 UY	3 UY	-	-
Turbidity	NTU	< 29 t	≤ 80 p	-	65	0.70 Y	0.65 Y	1.2 Y	0.70 Y
Color (true)	PCU	-	Report	1,000 A	-	20 Y	23 Y	25 Y	20 Y
Alkalinity	mg CaCO3/L	-	-	-	355 A	75 Y	71 Y	-	-
Chloride	mg Cl/L	-[4]	-	-	220	11,000	9,800	-	-

Table 2. Continued

Analyte	Units	Class III Criteria	Effluent Permit Limits	EFF-1 Composite	EFF-1 Grab	MP Test	MP Control	Nutrient 1	Nutrient 2
Fluoride	mg F/L	≤ 5.0	-	-	0.089 I	0.68	0.64	-	-
Sulfate	mg SO4/L	-	-	-	410	1,500 Y	1,400 Y	-	-
Adsorbable Organic Halides[5]	lb/day	-	1,753 p	405.25	-	-	-	-	-
Bioassay - Water flea (*Ceriodaphnia dubia*) IC25	% effluent	≥ 100 p	≥ 8.7 p	22.7	-	-	-	-	-
Bioassay - Fish (*Pimephales promelas*) IC25	% effluent	≥ 100 p	≥ 8.7 p	> 100	-	-	-	-	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
p - 24 hour timed proportioned composite
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
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
3 - Estuary-specific numeric interpretations of the Numeric Nutrient Criterion (62-302.532, F.A.C.) for East Bay within the St Andrew Bay region, expressed as annual geometric means
4 - Shall not be increased above 10% from background
5 - Analysis performed by Eurofins TestAmerica, Savannah, Georgia

Table 3. Analytical metals data

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	EFF-1 Composite	EFF-1 Grab	MP Test	MP Control
Hardness	mg CaCO3/L	-	-	225 c	-	3,460 c	3,190 c
Aluminum	µg/L	≤ 1,500	≤ 10,000 p	3,330	-	50 U	58 I
Arsenic	µg/L	≤ 50	≤ 36 p	8.68	-	1.34	1.2
Cadmium	µg/L	≤ 8.8	-	0.279	-	0.080 U	0.080 U
Calcium	mg/L	-	-	72.2	-	217	202
Chromium, Total [6]	µg/L	≤ 50	-	4.8	-	4.0 U	4.0 U
Copper[7]	µg/L	≤ 3.7	≤ 21 p	5.35	-	1.6 U	1.6 U
Iron	µg/L	≤ 300	≤ 1,100 p	1,140 e	-	90 U	90 U
Lead	µg/L	≤ 8.5	-	2.19	-	0.80 U	0.80 U
Magnesium	mg/L	-	-	10.8	-	709	653
Mercury[7]	µg/L	≤ 0.025	≤ 0.025 s	-	0.0094	0.0011	0.0012
Nickel	µg/L	≤ 8.3	≤ 28 p	4.8	-	2.0 U	2.0 U
Potassium	mg/L	-	-	13.7	-	222	200
Selenium	µg/L	≤ 71	-	0.36 I	-	2.0 U	2.0 U
Silver	µg/L	≤ 2.3	-	0.075	-	0.040 U	0.040 U
Sodium	mg/L	-	-	404	-	5,560	5,230
Zinc	µg/L	≤ 86	-	47	-	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
p - 24 hour timed 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
6 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI
7 - Detected in the field blank at 1.1 (Copper) and 0.00022 I (Mercury).

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
EFF-1 grab	*Pseudokirchneriella subcapitata*	3.26 A	49.47 ± 9.9[8]	236.5 ± 47.3	171.8 ± 34.36	430 ± 86	2.37[8]	4.50[8]
EFF-1 grab	*Dunaliella tertiolecta*	29.4 *	not applicable[9]	not applicable [9]	not applicable [9]	not applicable [9]	2.37[8]	4.50[8]
MP Control	*Dunaliella tertiolecta*	3.0 UY	not applicable [9]	not applicable[9]	not applicable [9]	not applicable [9]	14.5[8]	43.6
MP Test	*Dunaliella tertiolecta*	3.0 UY	not applicable [9]	not applicable[9]	not applicable [9]	not applicable[9]	7.0[8]	38.9
Nutrient 1	*Dunaliella tertiolecta*	3.0 UY	not applicable [9]	not applicable [9]	not applicable [9]	not applicable [9]	18.5[8]	41.3
Nutrient 2	*Dunaliella tertiolecta*	3.0 UY	not applicable [9]	not applicable [9]	not applicable [9]	not applicable[9]	14.0[8]	44.3

* - 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

Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

8 - Nitrate-nitrite was not detected in the effluent grab sample. Ortho-phosphate was not detected in the Control, Test, Nutrient 1, or Nutrient 2 Sites. Predicted AGP and N:P ratios were calculated using ½ the method detection limit (MDL) for non-detect values.

9 - Predictions not applicable to marine matrix

Table 5. Detected Organic Constituents

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	EFF-1 Composite	EFF-1 Grab	MP Test	MP Control
Simazine	µg/L	-	-	-	0.065 UJ	0.011 I	0.011 U
2,4,6-Trichlorophenol	µg/L	≤ 6.5[10]	-	0.061 I	-	0.056 U	0.056 U
2,4-Dichlorophenol	µg/L	≤ 790s	-	0.16 I	-	0.056 U	0.056 U
2,4-Dimethylphenol	µg/L	-	-	0.19 I	-	0.056 U	0.056 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) [11]	pg/L	-	≤ 0.014 p	1.4 IJ e	-	0.37 UJ	0.25 UJ
Acetophenone	µg/L	-	-	1.9	-	0.22 U	0.22 U
o-Cresol	µg/L	-	-	0.54	-	0.056 U	0.056 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
e -Value exceeds the Class III Water Quality Criteria or permit limits
p - 24 hour timed proportioned composite
s - single sample
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
10 – Annual average
11 – Detected in the field blank at 2.0 IJ.

Appendix A. Facility Summary

State of Florida

Department of Environmental Protection

Facility Introduction & Summary

<table>
<tr><th colspan="3">PART I: Information gathered prior to sampling event</th></tr>
<tr><td colspan="2">Prepared By:
Larry Couch</td><td>Contact Number:
850-767-0047</td></tr>
<tr><td colspan="2">Facility Name (as it appears on permit):
Military Point Industrial Lagoon</td><td>Former Names:</td></tr>
<tr><td>NPDES Permit Number:
FL0002631</td><td colspan="2">Permit Expiration Date:
10/11/20</td></tr>
<tr><td colspan="3">Physical Address:
Lagoon Road, Tyndall AFB, FL 32403</td></tr>
<tr><td>District:
NWD</td><td colspan="2">County:
Bay</td></tr>
<tr><td colspan="3">Function of Facility:
Treatment facility for WestRock (paper mill) and Kraton (chemical company)</td></tr>
<tr><td>Facility Type:
Industrial</td><td colspan="2">Permitted Capacity (MGD):
30 MGD</td></tr>
</table>

Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 22.84 MGD Annual Average Flow (3/1/18-2/28/19)
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months):NA
Description of type of Discharge: ☒ Continuous ☐ Intermittent ☐ Seasonal ☐ Rainfall Dependent ☐ Other, please specify:
Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): EFF-1, Edge of Lagoon prior to diffuser discharge; CAL-01, Calculated value; SWA-MP1, 200 meters North of Outfall D-001 – Surface; SWA-MP2, 200 meters Southwest of Outfall D-001 – Surface; SWA-MP3, 200 meters West of Outfall D-001 – Surface.
Description of Permitted Outfall(s): The St. Andrew Bay Outfall line (D-001) is approximately 1300 feet in length, discharges at a depth between 17 to 25 feet of the last 250 feet of the line, and the point of discharge is located approximately at latitude 30° 07' 30" N, longitude 85° 37' 52" W.
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): The Facility is a 69 acre secondary treatment lagoon divided into 5 cells by 4 curtain walls that provides treatment for pre-treated wastewater. The lagoon curtain walls direct flow and create aerated stabilization cells that contain forty-five, 75 horsepower aerators that provide treatment for the wastewater. Cell #5 is a quiescent cell for solids settling. A sludge handling facility, constructed in 1992, consists of two lined ponds, approximately 8.8 acres, the thickening pond is built with 6 inches of concrete over a 20 mil visquine lining and the decant pond is built with a 20 mil PVC lining. Solids are dredged from the solids settling cell on a routine basis into the sludge handling facility. Decant water is returned to Cell #1 of the

69 acre lagoon. Residuals from the sludge handling facility are land applied at agronomic rates to agricultural fields approved in this permit or disposed of by incineration.

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max Max	Report Report Report	Monthly Average Daily Maximum Annual Average	Continuous	Recording Flow Meter with Totalizer	EFF-1	
BOD, Carbonaceous 5 day, 20C	mg/L	Max	Report	Monthly Average	3 Days/Week	24-hr TPC	EFF-1	
BOD, Carbonaceous 5 day, 20C	lb/day	Max Max	750 6 15012	Monthly Average Daily Maximum	3 Days/Week	Calculated	EFF-1	
Solids, Total Suspended	mg/L	Max	Report	Monthly Average	3 Days/Week	24-hr TPC	EFF-1	
Solids, Total Suspended	lb/day	Max Max	750 6 15012	Monthly Average Daily Maximum	3 Days/Week	Calculated	EFF-1	
Nitrogen, Total	mg/L	Max	Report	Monthly Average	Weekly	Grab	EFF-1	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
Nitrogen, Total	lb/day	Max Max	Report Report	Daily Maximum Monthly Average	Weekly	Calculated	EFF-1	
Phosphorus, Total (as P)	mg/L	Max	Report	Monthly Average	Weekly	Grab	EFF-1	
Phosphorus, Total (as P)	lb/day	Max Max	Report Report	Daily Maximum Monthly Average	Weekly	Calculated	EFF-1	
Adsorbable Organic Halides (AOX)	lb/day	Max Max	175 3 1149	Daily Maximum Monthly Average	Weekly	24-hr TPC	EFF-1	
Turbidity	NTU	Max	80 Report	Daily Maximum Monthly Average	Weekly	24-hr TPC	EFF-1	
pH	s.u.	Min Max	6.5 8.5	Daily Minimum Daily Maximum	Continuous	Grab	EFF-1	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
Oxygen, Dissolved Percent Saturation (Daily Average)	% smpcmpln	Min	90	Monthly Total	5 Days/Week	Calculated	EFF-1	See I.A.10
Oxygen, Dissolved Percent Saturation (Weekly Average)	# of exceedances	Max	1	3-Month Rolling Average	Weekly	Calculated	CAL-01	See I.A.11
Oxygen, Dissolved Percent Saturation (Monthly Average)	# of exceedances	Max	1	Annual Total	Monthly	Calculated	CAL-01	See I.A.12
Chemical Oxygen Demand (COD)	mg/L	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	24-hr TPC	EFF-1	
Color (Effluent)	PCU	Max Max Max	Report Report Report	Daily Maximum Monthly Average Annual Average	Weekly	24-hr TPC	EFF-1	See I.A.9
Color (Calculated Limit)	PCU	Max	Report	Annual Average	Monthly	Calculated	CAL-01	See I.A.9
Color (Compliance (Y minus P))	PCU	Max	0.00	Annual Average	Monthly	Calculated	CAL-01	See I.A.9

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			
Arsenic, Total Recoverable	ug/L	Max Max	36 36	Monthly Average Daily Maximum	Quarterly	24-hr TPC	EFF-1	
Aluminum, Total Recoverable	mg/L	Max Max	10 10	Monthly Average Daily Maximum	Quarterly	24-hr TPC	EFF-1	See I.A.8
Copper, Total Recoverable	ug/L	Max Max	21 21	Monthly Average Daily Maximum	Quarterly	24-hr TPC	EFF-1	See I.A.8
Iron, Total Recoverable	mg/L	Max Max	1.10 1.10	Monthly Average Daily Maximum	Quarterly	24-hr TPC	EFF-1	See I.A.8
Mercury, Total Recoverable	ug/L	Max Max	0.025 0.025	Daily Maximum Monthly Average	Quarterly	Grab	EFF-1	
Nickel, Total Recoverable	ug/L	Max Max	28.0 28.0	Monthly Average	Quarterly	24-hr TPC	EFF-1	See I.A.8

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
				Daily Maximum				
2,3,7,8-tetrachlorodibenzo- p-dioxin (TCDD)	pg/L	Max Max	0.014 0.014	Monthly Average Daily Maximum	Quarterly	24-hr TPC	EFF-1	
Chronic Whole Effluent Toxicity 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	8.7	Single Sample	Quarterly	24-hr TPC	EFF-1	See I.A.6 and I.A.8
Chronic Whole Effluent Toxicity 7-Day IC25 (Pimephales promelas)	percent	Min	8.7	Single Sample	Quarterly	24-hr TPC	EFF-1	See I.A.6 and I.A.8
Surface Water Monitoring								
Nitrogen, Total	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWA-MP1 SWA-MP2 SWA-MP3	
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Quarterly	Grab		
Oxygen, Dissolved Percent Saturation	percent	Max	Report	Single Sample	Quarterly	Grab	SWA-MP1 SWA-MP2 SWA-MP3	
Chlorophyll a	mg/L	Max	Report	Single Sample	Quarterly	Grab		
Turbidity	NTU	Max	Report	Single Sample	Quarterly	Grab		

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
Color	PCU	Max	Report	Single Sample	Quarterly	Grab		
Transparency, Secchi Disk	in	Max	Report	Single Sample	Quarterly	Grab		
Internal Outfall								
1,1,1-trichloroethane	lb/day	Max Max	0.079 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,1,2-trichloroethane	lb/day	Max Max	0.169 0.040	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,1-dichloroethane	lb/day	Max Max	0.079 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,1-dichloroethylene	lb/day	Max Max	0.080 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
1,2,4-trichlorobenzene	lb/day	Max Max	1.058 0.260	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,2-dichlorobenzene	lb/day	Max Max	1.058 0.260	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,2-dichloroethane	lb/day	Max Max	0.765 0.240	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,2-dichloropropane	lb/day	Max Max	1.058 0.260	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,2-trans-dichloroethylene	lb/day	Max Max	0.088 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,3-dichlorobenzene	lb/day	Max Max	0.507 0.190	Daily Maximum	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
				Monthly Average				
1,3-dichloropropene	lb/day	Max Max	1.058 0.260	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
1,4-dichlorobenzene	lb/day	Max Max	0.507 0.190	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
2-nitrophenol	lb/day	Max Max	0.308 0.090	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
4,6-dinitro-o-cresol	lb/day	Max Max	0.369 0.100	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
4-nitrophenol	lb/day	Max Max	0.768 0.220	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
Acenaphthene	lb/day	Max Max	0.063 0.026	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Anthracene	lb/day	Max Max	0.063 0.026	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Benzene	lb/day	Max Max	0.179 0.080	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Bis (2-ethylhexyl) phthalate	lb/day	Max Max	0.344 0.130	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Carbon tetrachloride	lb/day	Max Max	0.507 0.190	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Chlorobenzene	lb/day	Max Max	0.507 0.190	Daily Maximum	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
				Monthly Average				
Chloroethane	lb/day	Max Max	0.393 0.150	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Chloroform	lb/day	Max Max	0.433 0.150	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Di-n-butyl phthalate	lb/day	Max Max	0.057 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Diethyl phthalate	lb/day	Max Max	0.151 0.060	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Dimethyl phthalate	lb/day	Max Max	0.063 0.026	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
Ethylbenzene	lb/day	Max Max	0.507 0.190	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Fluoranthene	lb/day	Max Max	0.072 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Fluorene	lb/day	Max Max	0.063 0.026	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Hexachlorobenzene	lb/day	Max Max	1.058 0.260	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Hexachlorobutadiene	lb/day	Max Max	0.507 0.190	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Hexachloroethane	lb/day	Max Max	1.058 0.260	Daily Maximum	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
				Monthly Average				
Methyl chloride	lb/day	Max Max	0.393 0.150	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Methylene chloride	lb/day	Max Max	0.227 0.050	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Naphthalene	lb/day	Max Max	0.063 0.026	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Nitrobenzene	lb/day	Max Max	8.534 2.980	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Phenanthrene	lb/day	Max Max	0.063 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
Pyrene	lb/day	Max Max	0.064 0.030	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Tetrachloroethylene	lb/day	Max Max	0.219 0.070	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Toluene	lb/day	Max Max	0.099 0.040	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Cyanide, Total (as CN)	lb/day	Max Max	1.600 0.560	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Lead, Total Recoverable	lb/day	Max Max	0.920 0.430	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Zinc, Total Recoverable	lb/day	Max Max	3.479 1.400	Daily Maximum	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued								
List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
			Effluent Limitations		Monitoring Requirements			
				Monthly Average				
Trichloroethylene	lb/day	Max Max	0.092 0.035	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	
Vinyl chloride	lb/day	Max Max	0.229 0.130	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	OUI-002	

PART I: Continued	
Receiving Waters: St. Andrews Bay	Classification (indicate whether fresh or marine): Marine

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

c. Sampling Requirements

(1) For each routine test or additional follow-up test conducted, a total of three flow proportional 24-hour composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.

(2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.

(3) Samples for routine and additional follow-up tests shall not be collected on the same day.

d. Test Requirements

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: 100%, 34.8%, 17.4%, 8.7%, and 4.35% final effluent.

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

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

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

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with

each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using

the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

(2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or the "test acceptability criteria" are not met, the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (Ceriodaphnia dubia) and Section 11.11 (Pimephales promelas). The repeat test shall begin within 21 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and

the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed doseresponse

relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be

included with the bioassay laboratory reports.

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

Facility Mixing Zone Details (if applicable):

There are mixing zones for seven water quality criteria – four new ones and three carried over from the last permit cycle.

a. 905 square meters mixing zone for nickel, turbidity and chronic whole effluent toxicity.

b. 113,000 square meters mixing zone for transparency.

c. 12.56 square meters mixing zone for aluminum.

d. 113.0 square meters mixing zone for iron.

e. 615.4 square meters mixing zone for copper.

[62-302.530(43) and 62-4.244)]

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

Date	Parameter and Units	Limit	Result
6/30/2018	2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) (pg/L)	0.014	1.32

Describe previous FYI and WQBEL study:

The Military Point AWT effluent was below the minimum Class III Marine Quality Criterion limit for pH but complied with the permit limit. The Military Point AWT effluent composite sample exceeded the Class III Criterion for copper but not the permit limit. The Military Point Industrial Lagoon effluent grab sample exceeded the Class III Marine Water Quality Criterion limit for aluminum (62-302.530(2), F.A.C.) and iron (62-302.530(38), F.A.C.). The Military Point Industrial Lagoon effluent composite sample was toxic to both the water flea, *Ceriodaphnia dubia*, and the fish, *Pimephales promelas*, during the chronic definitive bioassay. AGP values

of both effluents suggest the potential for nutrient enrichment, but the combined effluent did not appear to be contributing to nutrient enrichment at the Test Site. There were no apparent adverse effects on either the macroinvertebrate or phytoplankton communities in St. Andrew Bay from the effluents.

Describe previous or current Enforcement Actions (including WLs):

Describe any violations or problems noted in previous inspection:
Discuss whether DMR trends within previous five years are improving or declining:
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

PART II: Sampling Event Information	
Date(s) sample collected: 5/1/19	Sampler(s): Larry Couch, Corinna Clanton
Temperature (Deg C): 31.2	pH (SU): 7.46
Dissolved Oxygen (mg/L): 8.35	Conductivity (umhos/cm): Not collected
Total Residual Chlorine (mg/L): NA	Total Residual Chlorine - after Disinfection (mg/L): NA
Method of Chlorination: NA	Method of De-chlorination: NA
Flow During Sample Collection for each outfall (MGD): 20.26	
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): NA	
Describe Discharge during Sampling Event: ☒ Continuous ☐ Intermittent ☐ Seasonal ☐ Rainfall Dependent ☐ Other, please specify	

Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here:

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 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 62-302.530(20), 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 62-302.530(62) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

  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 62-302.530(47), F.A.C., 62-302.530(48)(a), F.A.C. and/or 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 62-302.530(62), F.A.C.

- **Algal Phytoplankton and Periphyton Assemblages**
  - 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 62-302.530(47), F.A.C., 62-302.530(48)(a) F.A.C. and/or 62-302.530(48)(b) F.A.C..

- **Definition of Qualifiers**

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-2019-04-08-20

FYI5 Military Point Industrial Lagoon Sampling Inspection

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection
Central Laboratory Submittal Form

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last revised Jan 25, 2018

Requester: Tanya Welborn
Collected By: Larry Couch
Field Report Prepared By: Larry Couch
Sampling Agency: FDEP

Location: Military Point Industrial Lagoon Effluent Flume	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 4/28/19 Time 0800	Eastern Central	Composite end Date 4/29/19 Time 0800		Bottle Group(s) (See pg 2): B
Field ID: BSY-CD-FCD; BSY-CD-FFS		Matrix (type, e.g., Salt, Fresh, etc): Salt TC 4/29/19		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: 2 bottles			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
					4-30-19 1038

2 JW95 Lauren Bouffard 4.30.19 1037

Request Number: RQ-2019-04-08-20

FYI5 Military Point Industrial Lagoon Sampling Inspection

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

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last revised Jan 25, 2018

Requester: Tanya Welborn

Collected By: Nathan Mulkey

Field Report Prepared By: S Slade

Sampling Agency: FDEP NWROC

Location: MP Control Palmetto pt. St. Andrew Bay	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/30/19 Time 1030 Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2): C
Field ID: MP Control	Matrix (type, e.g. Salt, Fresh, etc)	Diss. Oxygen 7.94 ☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C) 24.5	pH 7.91	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 29005	
Latitude 30.12693 ☑ dd ☐ dms	Longitude 85.64887 ☑ dd ☐ dms	Salinity (ppt) 17.93	Comments: Hg ID: T5	
Location: St. Andrew Bay	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/30/19 Time 1108 Eastern Central	Composite end Date Time	Bottle Group(s): D
Field ID: Nutrient 1	Matrix (type, e.g. Salt, Fresh, etc)	Diss. Oxygen 7.88 ☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C) 25.0	pH 7.93	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 26255	
Latitude 30.10531 ☑ dd ☐ dms	Longitude 85.60831 ☑ dd ☐ dms	Salinity (ppt) 16.03	Comments	
Location: St. Andrew Bay	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/30/19 Time 1135 Eastern Central	Composite end Date Time	Bottle Group(s): D
Field ID: Nutrient 2	Matrix (type, e.g. Salt, Fresh, etc)	Diss. Oxygen 8.07 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C) 24.5	pH 8.02	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 31955	
Latitude 30.14157 ☑ dd ☐ dms	Longitude 85.65832 ☐ dd ☐ dms	Salinity (ppt) 19.85	Comments	
Location: Military Point AWT/ Lagoon Discharge	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/30/19 Time 1200 Eastern Central	Composite end Date Time	Bottle Group(s): C
Field ID: MP TEST	Matrix (type, e.g. Salt, Fresh, etc)	Diss. Oxygen 8.03 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C) 25.1	pH 8.00	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 30722	
Latitude 30.12471 ☑ dd ☐ dms	Longitude 85.63072 ☐ dd ☐ dms	Salinity (ppt) 19.07	Comments	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
A. Hogue	5/1/19 8:05am	Hand delivered	3	KK	5-1-19 / 8:00

Request Number: RQ-2019-04-08-20

FYI5 Military Point Industrial Lagoon Sampling Inspection

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 6

last revised Jan 25, 2018

Requester: Tanya Welborn

Collected By: Larry Couch

Field Report Prepared By: Larry Couch

Sampling Agency: FDEP/NWD/PC

Location: Military Pt. Industrial Lagoon EFF-1	☐ Comp ☐ Grab	Collection (comp begin or grab) Date 4/30/19 Time 0800	Eastern Central	Composite end Date 5/1/19 Time 0800	Bottle Group(s) (See pg 2): B				
Field ID: (Toxicity) BSY-CD-FCD BSY-CD-FES	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: NA ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L): NA						
WIN/STORET #	Temp (C): NA	pH: NA	Sample Depth: NA ☐ ft ☐ m	Sp. Conductance (umho/cm): NA					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: (2) Bottles						
Location: Military Pt. Industrial Lagoon EFF-1	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/30/19 Time 0923	Eastern Central	Composite end Date Time	Bottle Group(s): E				
Field ID: W-HG-AF (Mercury)	Matrix (type, e.g., Salt, Fresh, etc): ~~Air~~ Fresh	Diss. Oxygen: NA ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L): NA						
WIN/STORET #	Temp (C): NA	pH: NA	Sample Depth: NA ☐ ft ☐ m	Sp. Conductance (umho/cm): NA					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Was left out of 4/30/19 shipment.						
~~Location~~	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)				
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments						
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)				
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments						

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
LC	5/1/19 @1200	FEDEX	1	KH	5.2.19 / 10:10

2 Bioassay jugs. 10:59 JS 5.2.19

Request Number: RQ-2019-04-08-20

FYI5 Military Point Industrial Lagoon Sampling Inspection

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Tanya Welborn

Collected By: Larry Couch

Field Report Prepared By: Larry Couch 850-767-0047

Sampling Agency: FDEP

Location: Military Pt. Ind. Lagoon, effluent flume	☑ Comp ☐ Grab	Collection (comp begin or grab) Date 5/2/19 Time 0800	Eastern Central	Composite end Date 5/3/19 Time 0800			Bottle Group(s) (See pg 2): B
Field ID: Biossay EFF-1	Matrix (type, e.g., Salt, Fresh, etc): Wastewater			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH		Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: 3 of 3, 3 BG 4L				
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time			Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH		Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time			Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH		Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time			Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH		Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
LC	5/3/19	FEDEX	2	Tyler Reynolds	05/6/19@ 09:15am

5.4.19 Lauren Layfield

0.1°C temp received at 9:15

Appendix D. Chemical Analysis of Effluent and Receiving Water

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/29/2019	EFF-1 Comp	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	100 L	IC25		
4/29/2019	EFF-1 Comp	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	22.7	IC25		
4/29/2019	EFF-1 Comp	Toxicology	Bioassay-Chron-Def-FW-C.dubia, NOEC	17.4	NOEC		
4/29/2019	EFF-1 Comp	Toxicology	Bioassay-Chron-Def-FW-Fish, NOEC	100	NOEC		
4/30/2019	Field Blank	Metals	Mercury	0.22 I	ng/L	0.1	0.3
4/30/2019	EFF-1 Comp	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	12 AJ	mg/L	0.2	2
4/30/2019	EFF-1 Comp	Metals	Zinc	47	ug/L	5	20
4/30/2019	EFF-1 Comp	Metals	Arsenic	8.68	ug/L	0.05	0.2
4/30/2019	EFF-1 Comp	Metals	Nickel	4.8	ug/L	0.5	2
4/30/2019	EFF-1 Comp	Metals	Potassium	13.7	mg/L	0.3	1.2
4/30/2019	EFF-1 Comp	Metals	Sodium	404	mg/L	5	20
4/30/2019	EFF-1 Comp	Metals	Aluminum	3330	ug/L	15	60
4/30/2019	EFF-1 Comp	Metals	Lead	2.19	ug/L	0.2	0.4
4/30/2019	EFF-1 Comp	Metals	Cadmium	0.279	ug/L	0.02	0.08
4/30/2019	EFF-1 Comp	Metals	Chromium	4.8	ug/L	0.4	1.6
4/30/2019	EFF-1 Comp	Metals	Copper	5.35	ug/L	0.4	0.8
4/30/2019	EFF-1 Comp	Metals	Selenium	0.36 I	ug/L	0.2	0.8
4/30/2019	EFF-1 Comp	Metals	Iron	1140	ug/L	30	120
4/30/2019	EFF-1 Comp	Metals	Calcium	72.2	mg/L	0.075	0.3
4/30/2019	EFF-1 Comp	Metals	Magnesium	10.8	mg/L	0.04	0.16
4/30/2019	EFF-1 Comp	Metals	Silver	0.075	ug/L	0.01	0.04
4/30/2019	EFF-1 Comp	Nutrients	Turbidity	65	NTU	0.2	0.25
4/30/2019	EFF-1 Comp	Nutrients	TSS	24	mg/L	3.3	17
4/30/2019	EFF-1 Comp	Nutrients	Color (true)	1000 A	PCU	25	60
4/30/2019	EFF-1 Comp	Overflow	2,3,7,8-TCDF	0.26 UJ	pg/L		
4/30/2019	EFF-1 Comp	Overflow	2,3,7,8-TCDD	1.4 IJ	pg/L		
4/30/2019	EFF-1 Comp	Overflow	Adsorbable Organic Halides	2400	ug/L	6.2	20
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosomorpholine	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Phenol	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,4-Dimethylphenol	0.19 I	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Acetylaminofluorene	1.0 UJ	ug/L	1	4.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	ug/L	3.1	12
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Methylnaphthalene	0.10 U	ug/L	0.1	0.41

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Nitrophenol	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	3-Methylcholanthrene	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	7,12-Dimethylbenz(a)anthracene	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Dimethyl phthalate	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Fluoranthene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 UJ	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	8.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,3,4,6-Tetrachlorophenol	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,4,5-Trichlorophenol	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Aniline	1.0 U	ug/L	1	4.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Benzidine	10 U	ug/L	10	41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Dibenzofuran	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Ethyl methanesulfonate	1.0 U	ug/L	1	4.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Phenanthrene	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	m,p-Cresols	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Chlorophenol	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Nitroaniline	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Picoline	1.0 U	ug/L	1	4.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Anthracene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Chrysene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	ug/L	2	8.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Fluorene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosopiperidine	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Pyrene	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Pyridine	4.1 U	ug/L	4.1	8.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	1,2,4,5-Tetrachlorobenzene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	1,3-Dinitrobenzene	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	1-Naphthylamine	10 UJ	ug/L	10	41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	ug/L	0.051	0.2

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	ug/L	5.1	20
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Hexachloroethane	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Isophorone	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Isosafrole	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	1,3,5-Trinitrobenzene	0.10 UJ	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Naphthylamine	10 UJ	ug/L	10	41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	4-Nitrophenol	10 U	ug/L	10	41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	5-Nitro-o-toluidine	0.10 UJ	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Acenaphthylene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Carbazole	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosodi-n-butylamine	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Naphthalene	0.10 UJ	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Pentachloronitrobenzene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Safrole	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	o-Toluidine	0.10 UJ	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.061 I	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Diethyl phthalate	2.0 U	ug/L	2	8.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Hexachloropropene	0.051 UJ	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Nitrobenzene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Pentachlorobenzene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	o-Cresol	0.54	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	ug/L	10	41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,6-Dichlorophenol	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Benzyl alcohol	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	ug/L	1	4.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Dimethylaminoazobenzene	0.051 UJ	ug/L	0.051	0.2

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosodiethylamine	1.0 U	ug/L	1	4.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosopyrrolidine	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Pentachloroethane	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Pentachlorophenol	0.51 U	ug/L	0.51	2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Phenacetin	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	1-Methylnaphthalene	0.10 U	ug/L	0.1	0.41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2,4-Dichlorophenol	0.16 I	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 UJ	ug/L	10	41
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	4-Aminobiphenyl	4.1 UJ	ug/L	4.1	16
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Acenaphthene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Acetophenone	1.9	ug/L	0.2	0.82
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	ug/L	0.026	0.1
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	Dinoseb	4.1 UJ	ug/L	4.1	16
4/30/2019	EFF-1 Comp	Priority Organic Pollutants	N-Nitrosomethylethylamine	2.0 U	ug/L	2	4.1
4/30/2019	EFF-1 Grab	AGP/LN	Algal Growth Potential-Salinity Adjusted	29.4	mg DryWt/L	0.3	0.9
4/30/2019	EFF-1 Grab	AGP/LN	Algal Growth Potential	3.26 A	mg DryWt/L	0.3	0.9
4/30/2019	EFF-1 Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	3.0 U	ug/L	3	9
4/30/2019	EFF-1 Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	4.5 U	ug/L	4.5	14
4/30/2019	EFF-1 Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	4.1 U	ug/L	4.1	13
4/30/2019	EFF-1 Grab	Metals	Mercury	9.4	ng/L	0.1	0.3
4/30/2019	EFF-1 Grab	Nutrients	Kjeldahl Nitrogen	4.5	mg N/L	0.4	1
4/30/2019	EFF-1 Grab	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
4/30/2019	EFF-1 Grab	Nutrients	Ammonia-N	1.3	mg N/L	0.2	0.5
4/30/2019	EFF-1 Grab	Nutrients	Organic Carbon	130	mg C/L	5	10
4/30/2019	EFF-1 Grab	Nutrients	Total-P	1	mg P/L	0.025	0.25
4/30/2019	EFF-1 Grab	Nutrients	O-Phosphate-P	0.55 Y	mg P/L	0.04	0.1
4/30/2019	EFF-1 Grab	Nutrients	Fluoride	0.089 I	mg F/L	0.035	0.1
4/30/2019	EFF-1 Grab	Nutrients	Total Alkalinity	355 A	mg CaCO3/L	0.65	2.5
4/30/2019	EFF-1 Grab	Nutrients	Chloride	220	mg Cl/L	2	6
4/30/2019	EFF-1 Grab	Nutrients	Sulfate	410	mg SO4/L	2	6
4/30/2019	EFF-1 Grab	Pesticides	Naproxen	0.0080 U	ug/L	0.008	0.032
4/30/2019	EFF-1 Grab	Pesticides	Metalaxyl	0.18 UJ	ug/L	0.18	0.73
4/30/2019	EFF-1 Grab	Pesticides	Parathion Methyl	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Metribuzin	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Grab	Pesticides	Phorate	0.0051 U	ug/L	0.0051	0.02

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/30/2019	EFF-1 Grab	Pesticides	Ethoprop	0.0051 U	ug/L	0.0051	0.02
4/30/2019	EFF-1 Grab	Pesticides	Chlorpyrifos Ethyl	0.010 UJ	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Butylate	0.051 U	ug/L	0.051	0.2
4/30/2019	EFF-1 Grab	Pesticides	Fonofos	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Ametryn	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Atrazine	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Azinphos Methyl	0.092 U	ug/L	0.092	0.37
4/30/2019	EFF-1 Grab	Pesticides	Hexazinone	0.071 U	ug/L	0.071	0.29
4/30/2019	EFF-1 Grab	Pesticides	Metolachlor	0.12 U	ug/L	0.12	0.49
4/30/2019	EFF-1 Grab	Pesticides	Mevinphos	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Naled	0.081 U	ug/L	0.081	0.33
4/30/2019	EFF-1 Grab	Pesticides	Prometryn	0.020 U	ug/L	0.02	0.081
4/30/2019	EFF-1 Grab	Pesticides	Simazine	0.065 UJ	ug/L	0.065	0.27
4/30/2019	EFF-1 Grab	Pesticides	Demeton	0.024 UJ	ug/L	0.024	0.098
4/30/2019	EFF-1 Grab	Pesticides	Sucralose	0.010 U	ug/L	0.01	0.04
4/30/2019	EFF-1 Grab	Pesticides	Ethion	0.010 UJ	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Fenamiphos	0.031 UJ	ug/L	0.031	0.12
4/30/2019	EFF-1 Grab	Pesticides	Parathion Ethyl	0.020 U	ug/L	0.02	0.081
4/30/2019	EFF-1 Grab	Pesticides	Prometon	0.020 U	ug/L	0.02	0.081
4/30/2019	EFF-1 Grab	Pesticides	Malathion	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Ibuprofen	0.020 U	ug/L	0.02	0.08
4/30/2019	EFF-1 Grab	Pesticides	Chlorpyrifos Methyl	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Diazinon	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Disulfoton	0.0051 U	ug/L	0.0051	0.02
4/30/2019	EFF-1 Grab	Pesticides	Norflurazon	0.051 UJ	ug/L	0.051	0.2
4/30/2019	EFF-1 Grab	Pesticides	Atrazine Desisopropyl	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Alachlor	0.061 U	ug/L	0.061	0.24
4/30/2019	EFF-1 Grab	Pesticides	Atrazine Desethyl	0.010 U	ug/L	0.01	0.041
4/30/2019	EFF-1 Grab	Pesticides	Bromacil	0.041 U	ug/L	0.041	0.16
4/30/2019	EFF-1 Grab	Priority Organic Pollutants	1,4-Dioxane	8.7	ug/L	0.1	0.4
4/30/2019	Control Site	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.0 UY	mg DryWt/L	3	3
4/30/2019	Control Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2.4 IY	ug/L	0.96	3
4/30/2019	Control Site	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.78 IJY	mg/L	0.2	2
4/30/2019	Control Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.0 UY	ug/L	1	3.2
4/30/2019	Control Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	2.2 Y	ug/L	0.7	2.1
4/30/2019	Control Site	Metals	Magnesium	653	mg/L	2	8

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4/30/2019	Control Site	Metals	Zinc	15 U	ug/L	15	60
4/30/2019	Control Site	Metals	Aluminum	58 I	ug/L	50	200
4/30/2019	Control Site	Metals	Chromium	4.0 U	ug/L	4	16
4/30/2019	Control Site	Metals	Potassium	200	mg/L	15	60
4/30/2019	Control Site	Metals	Selenium	2.0 U	ug/L	2	8
4/30/2019	Control Site	Metals	Lead	0.80 U	ug/L	0.8	1.6
4/30/2019	Control Site	Metals	Mercury	1.2	ng/L	0.1	0.3
4/30/2019	Control Site	Metals	Nickel	2.0 U	ug/L	2	8
4/30/2019	Control Site	Metals	Iron	90 U	ug/L	90	360
4/30/2019	Control Site	Metals	Silver	0.040 U	ug/L	0.04	0.16
4/30/2019	Control Site	Metals	Cadmium	0.080 U	ug/L	0.08	0.32
4/30/2019	Control Site	Metals	Arsenic	1.2	ug/L	0.2	0.8
4/30/2019	Control Site	Metals	Copper	1.6 U	ug/L	1.6	3.2
4/30/2019	Control Site	Metals	Sodium	5230	mg/L	50	200
4/30/2019	Control Site	Metals	Calcium	202	mg/L	0.22	0.9
4/30/2019	Control Site	Nutrients	NO2NO3-N	0.025 Y	mg N/L	0.004	0.01
4/30/2019	Control Site	Nutrients	Sulfate	1400 Y	mg SO4/L	20	60
4/30/2019	Control Site	Nutrients	Color (true)	23 Y	PCU	2.5	6
4/30/2019	Control Site	Nutrients	O-Phosphate-P	0.004 UY	mg P/L	0.004	0.01
4/30/2019	Control Site	Nutrients	Kjeldahl Nitrogen	0.28 IY	mg N/L	0.16	0.4
4/30/2019	Control Site	Nutrients	Fluoride	0.64	mg F/L	0.18	0.5
4/30/2019	Control Site	Nutrients	Chloride	9800	mg Cl/L	20	60
4/30/2019	Control Site	Nutrients	Total-P	0.007 IY	mg P/L	0.004	0.01
4/30/2019	Control Site	Nutrients	TSS	3 UY	mg/L	3	10
4/30/2019	Control Site	Nutrients	Turbidity	0.65 Y	NTU	0.1	0.13
4/30/2019	Control Site	Nutrients	Total Alkalinity	71 Y	mg CaCO3/L	0.65	2.5
4/30/2019	Control Site	Nutrients	Organic Carbon	4.8 Y	mg C/L	1	2
4/30/2019	Control Site	Nutrients	Ammonia-N	0.004 IY	mg N/L	0.002	0.005
4/30/2019	Control Site	Overflow	2,3,7,8-TCDD	0.25 UJ	pg/L		
4/30/2019	Control Site	Overflow	2,3,7,8-TCDF	0.11 UJ	pg/L		
4/30/2019	Control Site	Pesticides	Sucralose	0.17	ug/L	0.01	0.04
4/30/2019	Control Site	Pesticides	Azinphos Methyl	0.10 U	ug/L	0.1	0.41
4/30/2019	Control Site	Pesticides	Butylate	0.057 U	ug/L	0.057	0.23
4/30/2019	Control Site	Pesticides	Metolachlor	0.14 U	ug/L	0.14	0.55
4/30/2019	Control Site	Pesticides	Prometryn	0.023 U	ug/L	0.023	0.092
4/30/2019	Control Site	Pesticides	Ibuprofen	0.020 U	ug/L	0.02	0.08
4/30/2019	Control Site	Pesticides	Atrazine	0.011 U	ug/L	0.011	0.046

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/30/2019	Control Site	Pesticides	Fenamiphos	0.034 UJ	ug/L	0.034	0.14
4/30/2019	Control Site	Pesticides	Metribuzin	0.057 U	ug/L	0.057	0.23
4/30/2019	Control Site	Pesticides	Norflurazon	0.057 U	ug/L	0.057	0.23
4/30/2019	Control Site	Pesticides	Bromacil	0.046 U	ug/L	0.046	0.18
4/30/2019	Control Site	Pesticides	Diazinon	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Atrazine Desethyl	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Ametryn	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Chlorpyrifos Ethyl	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Hexazinone	0.080 U	ug/L	0.08	0.32
4/30/2019	Control Site	Pesticides	Mevinphos	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Parathion Methyl	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Atrazine Desisopropyl	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Naled	0.092 U	ug/L	0.092	0.37
4/30/2019	Control Site	Pesticides	Parathion Ethyl	0.023 U	ug/L	0.023	0.092
4/30/2019	Control Site	Pesticides	Prometon	0.023 U	ug/L	0.023	0.092
4/30/2019	Control Site	Pesticides	Simazine	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Demeton	0.027 UJ	ug/L	0.027	0.11
4/30/2019	Control Site	Pesticides	Ethion	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Phorate	0.0057 U	ug/L	0.0057	0.023
4/30/2019	Control Site	Pesticides	Ethoprop	0.0057 U	ug/L	0.0057	0.023
4/30/2019	Control Site	Pesticides	Naproxen	0.0080 U	ug/L	0.008	0.032
4/30/2019	Control Site	Pesticides	Alachlor	0.069 U	ug/L	0.069	0.27
4/30/2019	Control Site	Pesticides	Chlorpyrifos Methyl	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Disulfoton	0.0057 U	ug/L	0.0057	0.023
4/30/2019	Control Site	Pesticides	Metalaxyl	0.21 UJ	ug/L	0.21	0.82
4/30/2019	Control Site	Pesticides	Fonofos	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Pesticides	Malathion	0.011 U	ug/L	0.011	0.046
4/30/2019	Control Site	Priority Organic Pollutants	2,4-Dinitrotoluene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	2-Nitrophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Acenaphthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Hexachlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Isosafrole	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosodiethylamine	1.1 U	ug/L	1.1	4.4
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosomethylethylamine	2.2 U	ug/L	2.2	4.4
4/30/2019	Control Site	Priority Organic Pollutants	Pentachlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Pentachloronitrobenzene	0.056 U	ug/L	0.056	0.22

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4/30/2019	Control Site	Priority Organic Pollutants	Phenacetin	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	o-Toluidine	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	1-Naphthylamine	11 U	ug/L	11	44
4/30/2019	Control Site	Priority Organic Pollutants	2-Methylnaphthalene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	7,12-Dimethylbenz(a)anthracene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	Aniline	1.1 U	ug/L	1.1	4.4
4/30/2019	Control Site	Priority Organic Pollutants	Anthracene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Benzo(b)fluoranthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Hexachlorobutadiene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Hexachloropropene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosodi-n-butylamine	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Phenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	o-Cresol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	2,4-Dimethylphenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 U	ug/L	11	44
4/30/2019	Control Site	Priority Organic Pollutants	Benzo(k)fluoranthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Di-n-butyl phthalate	2.2 U	ug/L	2.2	8.9
4/30/2019	Control Site	Priority Organic Pollutants	Diethyl phthalate	2.2 U	ug/L	2.2	8.9
4/30/2019	Control Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Safrole	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	1,4-Dioxane	0.020 U	ug/L	0.02	0.08
4/30/2019	Control Site	Priority Organic Pollutants	2,4-Dinitrophenol	11 U	ug/L	11	44
4/30/2019	Control Site	Priority Organic Pollutants	2,6-Dichlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.3 U	ug/L	3.3	13
4/30/2019	Control Site	Priority Organic Pollutants	2-Picoline	1.1 U	ug/L	1.1	4.4
4/30/2019	Control Site	Priority Organic Pollutants	3-Methylcholanthrene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	4-Nitrophenol	11 U	ug/L	11	44
4/30/2019	Control Site	Priority Organic Pollutants	Benzo(a)pyrene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Benzyl alcohol	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	ug/L	1.1	4.4
4/30/2019	Control Site	Priority Organic Pollutants	Fluorene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosodimethylamine	2.2 U	ug/L	2.2	8.9
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosopyrrolidine	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Pyridine	4.4 U	ug/L	4.4	8.9

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4/30/2019	Control Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	5-Nitro-o-toluidine	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.6 U	ug/L	5.6	22
4/30/2019	Control Site	Priority Organic Pollutants	Dinoseb	4.4 U	ug/L	4.4	18
4/30/2019	Control Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	m,p-Cresols	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	1,2,4,5-Tetrachlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	1,3,5-Trinitrobenzene	0.11 UJ	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	2-Chlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Benzidine	11 U	ug/L	11	44
4/30/2019	Control Site	Priority Organic Pollutants	Benzo(a)anthracene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Di-n-octyl phthalate	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Dibenzofuran	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Isophorone	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosomorpholine	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	N-Nitrosopiperidine	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Phenanthrene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	Pyrene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	1-Methylnaphthalene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	2-Acetylaminofluorene	1.1 U	ug/L	1.1	4.4
4/30/2019	Control Site	Priority Organic Pollutants	2-Chloronaphthalene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	2-Naphthylamine	11 U	ug/L	11	44
4/30/2019	Control Site	Priority Organic Pollutants	2-Nitroaniline	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Acetophenone	0.22 U	ug/L	0.22	0.89
4/30/2019	Control Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Dimethylaminoazobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Ethyl methanesulfonate	1.1 U	ug/L	1.1	4.4
4/30/2019	Control Site	Priority Organic Pollutants	Fluoranthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Hexachloroethane	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Nitrobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	1,3-Dinitrobenzene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	2,4-Dichlorophenol	0.056 U	ug/L	0.056	0.22

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4/30/2019	Control Site	Priority Organic Pollutants	2,6-Dinitrotoluene	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	4-Aminobiphenyl	4.4 U	ug/L	4.4	18
4/30/2019	Control Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Acenaphthylene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Carbazole	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Chrysene	0.028 U	ug/L	0.028	0.11
4/30/2019	Control Site	Priority Organic Pollutants	Dimethyl phthalate	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Naphthalene	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	Pentachloroethane	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	Pentachlorophenol	0.56 U	ug/L	0.56	2.2
4/30/2019	Control Site	Priority Organic Pollutants	2,3,4,6-Tetrachlorophenol	0.11 U	ug/L	0.11	0.44
4/30/2019	Control Site	Priority Organic Pollutants	2,4,5-Trichlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Control Site	Nutrients	Specific Conductance	29005	umhos/cm		
4/30/2019	Control Site	Nutrients	Sample Depth	0.3	m		
4/30/2019	Control Site	Nutrients	Temperature	24.5	C		
4/30/2019	Control Site	Nutrients	pH	7.91			
4/30/2019	Control Site	Nutrients	Dissolved Oxygen	7.94	mg/L		
4/30/2019	Test Site	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.0 UY	mg DryWt/L	3	3
4/30/2019	Test Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2.6 Y	ug/L	0.82	2.6
4/30/2019	Test Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 UY	ug/L	0.9	2.7
4/30/2019	Test Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	2.4 Y	ug/L	0.6	1.8
4/30/2019	Test Site	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.88 IJY	mg/L	0.2	2
4/30/2019	Test Site	Metals	Aluminum	50 U	ug/L	50	200
4/30/2019	Test Site	Metals	Chromium	4.0 U	ug/L	4	16
4/30/2019	Test Site	Metals	Copper	1.6 U	ug/L	1.6	3.2
4/30/2019	Test Site	Metals	Mercury	1.1	ng/L	0.1	0.3
4/30/2019	Test Site	Metals	Nickel	2.0 U	ug/L	2	8
4/30/2019	Test Site	Metals	Zinc	15 U	ug/L	15	60
4/30/2019	Test Site	Metals	Magnesium	709	mg/L	2	8
4/30/2019	Test Site	Metals	Selenium	2.0 U	ug/L	2	8
4/30/2019	Test Site	Metals	Sodium	5560	mg/L	50	200
4/30/2019	Test Site	Metals	Cadmium	0.080 U	ug/L	0.08	0.32
4/30/2019	Test Site	Metals	Arsenic	1.34	ug/L	0.2	0.8
4/30/2019	Test Site	Metals	Calcium	217	mg/L	0.22	0.9
4/30/2019	Test Site	Metals	Iron	90 U	ug/L	90	360

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/30/2019	Test Site	Metals	Lead	0.80 U	ug/L	0.8	1.6
4/30/2019	Test Site	Metals	Silver	0.040 U	ug/L	0.04	0.16
4/30/2019	Test Site	Metals	Potassium	222	mg/L	15	60
4/30/2019	Test Site	Nutrients	Kjeldahl Nitrogen	0.30 IY	mg N/L	0.16	0.4
4/30/2019	Test Site	Nutrients	NO2NO3-N	0.011 Y	mg N/L	0.004	0.01
4/30/2019	Test Site	Nutrients	Total Alkalinity	75 Y	mg CaCO3/L	0.65	2.5
4/30/2019	Test Site	Nutrients	Organic Carbon	4.8 Y	mg C/L	1	2
4/30/2019	Test Site	Nutrients	Ammonia-N	0.003 IY	mg N/L	0.002	0.005
4/30/2019	Test Site	Nutrients	Total-P	0.008 IY	mg P/L	0.004	0.01
4/30/2019	Test Site	Nutrients	TSS	3 UY	mg/L	3	10
4/30/2019	Test Site	Nutrients	Fluoride	0.68	mg F/L	0.18	0.5
4/30/2019	Test Site	Nutrients	O-Phosphate-P	0.004 UY	mg P/L	0.004	0.01
4/30/2019	Test Site	Nutrients	Chloride	11000	mg Cl/L	40	120
4/30/2019	Test Site	Nutrients	Sulfate	1500 Y	mg SO4/L	40	120
4/30/2019	Test Site	Nutrients	Color (true)	20 Y	PCU	2.5	6
4/30/2019	Test Site	Nutrients	Turbidity	0.70 Y	NTU	0.1	0.13
4/30/2019	Test Site	Overflow	2,3,7,8-TCDF	0.13 UJ	pg/L		
4/30/2019	Test Site	Overflow	2,3,7,8-TCDD	0.37 UJ	pg/L		
4/30/2019	Test Site	Pesticides	Simazine	0.011 I	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Naproxen	0.0080 U	ug/L	0.008	0.032
4/30/2019	Test Site	Pesticides	Butylate	0.054 U	ug/L	0.054	0.21
4/30/2019	Test Site	Pesticides	Norflurazon	0.054 U	ug/L	0.054	0.21
4/30/2019	Test Site	Pesticides	Parathion Methyl	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Bromacil	0.043 U	ug/L	0.043	0.17
4/30/2019	Test Site	Pesticides	Chlorpyrifos Methyl	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Demeton	0.026 UJ	ug/L	0.026	0.1
4/30/2019	Test Site	Pesticides	Disulfoton	0.0054 U	ug/L	0.0054	0.021
4/30/2019	Test Site	Pesticides	Ethoprop	0.0054 U	ug/L	0.0054	0.021
4/30/2019	Test Site	Pesticides	Naled	0.086 U	ug/L	0.086	0.34
4/30/2019	Test Site	Pesticides	Ibuprofen	0.020 U	ug/L	0.02	0.08
4/30/2019	Test Site	Pesticides	Atrazine	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Malathion	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Metalaxyl	0.19 UJ	ug/L	0.19	0.77
4/30/2019	Test Site	Pesticides	Parathion Ethyl	0.021 U	ug/L	0.021	0.086
4/30/2019	Test Site	Pesticides	Ametryn	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Chlorpyrifos Ethyl	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Diazinon	0.011 U	ug/L	0.011	0.043

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4/30/2019	Test Site	Pesticides	Fenamiphos	0.032 UJ	ug/L	0.032	0.13
4/30/2019	Test Site	Pesticides	Hexazinone	0.075 U	ug/L	0.075	0.3
4/30/2019	Test Site	Pesticides	Metolachlor	0.13 U	ug/L	0.13	0.51
4/30/2019	Test Site	Pesticides	Phorate	0.0054 U	ug/L	0.0054	0.021
4/30/2019	Test Site	Pesticides	Prometon	0.021 U	ug/L	0.021	0.086
4/30/2019	Test Site	Pesticides	Sucralose	0.15	ug/L	0.01	0.04
4/30/2019	Test Site	Pesticides	Atrazine Desethyl	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Ethion	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Fonofos	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Prometryn	0.021 U	ug/L	0.021	0.086
4/30/2019	Test Site	Pesticides	Alachlor	0.064 U	ug/L	0.064	0.26
4/30/2019	Test Site	Pesticides	Atrazine Desisopropyl	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Mevinphos	0.011 U	ug/L	0.011	0.043
4/30/2019	Test Site	Pesticides	Azinphos Methyl	0.096 U	ug/L	0.096	0.39
4/30/2019	Test Site	Pesticides	Metribuzin	0.054 U	ug/L	0.054	0.21
4/30/2019	Test Site	Priority Organic Pollutants	1-Naphthylamine	11 U	ug/L	11	44
4/30/2019	Test Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2,4-Dimethylphenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2-Chloronaphthalene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2-Naphthylamine	11 U	ug/L	11	44
4/30/2019	Test Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Fluorene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Hexachlorobutadiene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosodiethylamine	1.1 U	ug/L	1.1	4.4
4/30/2019	Test Site	Priority Organic Pollutants	Phenanthrene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	2,3,4,6-Tetrachlorophenol	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	2,4-Dinitrophenol	11 U	ug/L	11	44
4/30/2019	Test Site	Priority Organic Pollutants	2-Acetylaminofluorene	1.1 U	ug/L	1.1	4.4
4/30/2019	Test Site	Priority Organic Pollutants	2-Chlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2-Methylnaphthalene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 U	ug/L	11	44
4/30/2019	Test Site	Priority Organic Pollutants	3-Methylcholanthrene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	Aniline	1.1 U	ug/L	1.1	4.4
4/30/2019	Test Site	Priority Organic Pollutants	Benzo(a)anthracene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Benzo(b)fluoranthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Carbazole	0.056 U	ug/L	0.056	0.22

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4/30/2019	Test Site	Priority Organic Pollutants	Di-n-octyl phthalate	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Dinoseb	4.4 U	ug/L	4.4	18
4/30/2019	Test Site	Priority Organic Pollutants	Fluoranthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Hexachlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosodi-n-butylamine	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosomorpholine	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Pentachlorophenol	0.56 U	ug/L	0.56	2.2
4/30/2019	Test Site	Priority Organic Pollutants	o-Toluidine	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	1,3,5-Trinitrobenzene	0.11 UJ	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	2,4-Dinitrotoluene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	5-Nitro-o-toluidine	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	Acetophenone	0.22 U	ug/L	0.22	0.89
4/30/2019	Test Site	Priority Organic Pollutants	Benzo(k)fluoranthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Diethyl phthalate	2.2 U	ug/L	2.2	8.9
4/30/2019	Test Site	Priority Organic Pollutants	Dimethylaminoazobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Naphthalene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	Safrole	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	1,4-Dioxane	0.020 U	ug/L	0.02	0.08
4/30/2019	Test Site	Priority Organic Pollutants	1,3-Dinitrobenzene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	2,4,5-Trichlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.3 U	ug/L	3.3	13
4/30/2019	Test Site	Priority Organic Pollutants	2-Picoline	1.1 U	ug/L	1.1	4.4
4/30/2019	Test Site	Priority Organic Pollutants	Benzyl alcohol	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Di-n-butyl phthalate	2.2 U	ug/L	2.2	8.9
4/30/2019	Test Site	Priority Organic Pollutants	Dimethyl phthalate	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Hexachloroethane	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosomethylethylamine	2.2 U	ug/L	2.2	4.4
4/30/2019	Test Site	Priority Organic Pollutants	Nitrobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Pentachlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Phenacetin	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	4-Aminobiphenyl	4.4 U	ug/L	4.4	18
4/30/2019	Test Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Acenaphthylene	0.028 U	ug/L	0.028	0.11

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4/30/2019	Test Site	Priority Organic Pollutants	Benzo(a)pyrene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.6 U	ug/L	5.6	22
4/30/2019	Test Site	Priority Organic Pollutants	Chrysene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosopyrrolidine	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Pentachloronitrobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Pyridine	4.4 U	ug/L	4.4	8.9
4/30/2019	Test Site	Priority Organic Pollutants	1-Methylnaphthalene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	2,6-Dichlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2-Nitroaniline	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2-Nitrophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Acenaphthene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Anthracene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Pentachloroethane	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Phenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Pyrene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	m,p-Cresols	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2,4-Dichlorophenol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	2,6-Dinitrotoluene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	4-Nitrophenol	11 U	ug/L	11	44
4/30/2019	Test Site	Priority Organic Pollutants	7,12-Dimethylbenz(a)anthracene	0.11 U	ug/L	0.11	0.44
4/30/2019	Test Site	Priority Organic Pollutants	Benzidine	11 U	ug/L	11	44
4/30/2019	Test Site	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	ug/L	1.1	4.4
4/30/2019	Test Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.028 U	ug/L	0.028	0.11
4/30/2019	Test Site	Priority Organic Pollutants	Dibenzofuran	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Isophorone	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosopiperidine	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	o-Cresol	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	1,2,4,5-Tetrachlorobenzene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Ethyl methanesulfonate	1.1 U	ug/L	1.1	4.4
4/30/2019	Test Site	Priority Organic Pollutants	Hexachloropropene	0.056 U	ug/L	0.056	0.22
4/30/2019	Test Site	Priority Organic Pollutants	Isosafrole	0.056 U	ug/L	0.056	0.22

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4/30/2019	Test Site	Priority Organic Pollutants	N-Nitrosodimethylamine	2.2 U	ug/L	2.2	8.9
4/30/2019	Test Site	Nutrients	Specific Conductance	30722	umhos/cm		
4/30/2019	Test Site	Nutrients	Sample Depth	0.3	m		
4/30/2019	Test Site	Nutrients	Temperature	25.1	C		
4/30/2019	Test Site	Nutrients	pH	8			
4/30/2019	Test Site	Nutrients	Dissolved Oxygen	8.03	mg/L		
4/30/2019	Nutrient 1	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.0 UY	mg DryWt/L	3	3
4/30/2019	Nutrient 1	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	1.9 Y	ug/L	0.6	1.8
4/30/2019	Nutrient 1	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 UY	ug/L	0.9	2.7
4/30/2019	Nutrient 1	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2.0 IY	ug/L	0.82	2.6
4/30/2019	Nutrient 1	Nutrients	Organic Carbon	5.1 Y	mg C/L	1	2
4/30/2019	Nutrient 1	Nutrients	NO2NO3-N	0.030 Y	mg N/L	0.004	0.01
4/30/2019	Nutrient 1	Nutrients	Kjeldahl Nitrogen	0.30 IY	mg N/L	0.16	0.4
4/30/2019	Nutrient 1	Nutrients	Turbidity	1.2 Y	NTU	0.1	0.13
4/30/2019	Nutrient 1	Nutrients	Total-P	0.008 IY	mg P/L	0.004	0.01
4/30/2019	Nutrient 1	Nutrients	Ammonia-N	0.007 Y	mg N/L	0.002	0.005
4/30/2019	Nutrient 1	Nutrients	O-Phosphate-P	0.004 UY	mg P/L	0.004	0.01
4/30/2019	Nutrient 1	Nutrients	Color (true)	25 Y	PCU	2.5	6
4/30/2019	Nutrient 1	Nutrients	pH	7.93			
4/30/2019	Nutrient 1	Nutrients	Specific Conductance	26255	umhos/cm		
4/30/2019	Nutrient 1	Nutrients	Sample Depth	0.3	m		
4/30/2019	Nutrient 1	Nutrients	Dissolved Oxygen	7.88	mg/L		
4/30/2019	Nutrient 1	Nutrients	Temperature	25	C		
4/30/2019	Nutrient 2	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.0 UY	mg DryWt/L	3	3
4/30/2019	Nutrient 2	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2.2 IY	ug/L	0.82	2.6
4/30/2019	Nutrient 2	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 UY	ug/L	0.9	2.7
4/30/2019	Nutrient 2	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	2.2 Y	ug/L	0.6	1.8
4/30/2019	Nutrient 2	Nutrients	Color (true)	20 Y	PCU	2.5	6
4/30/2019	Nutrient 2	Nutrients	Total-P	0.008 IY	mg P/L	0.004	0.01
4/30/2019	Nutrient 2	Nutrients	NO2NO3-N	0.024 Y	mg N/L	0.004	0.01
4/30/2019	Nutrient 2	Nutrients	Organic Carbon	4.8 Y	mg C/L	1	2
4/30/2019	Nutrient 2	Nutrients	Turbidity	0.70 Y	NTU	0.1	0.13
4/30/2019	Nutrient 2	Nutrients	Ammonia-N	0.004 IY	mg N/L	0.002	0.005
4/30/2019	Nutrient 2	Nutrients	Kjeldahl Nitrogen	0.33 IY	mg N/L	0.16	0.4
4/30/2019	Nutrient 2	Nutrients	O-Phosphate-P	0.004 UY	mg P/L	0.004	0.01
4/30/2019	Nutrient 2	Nutrients	Dissolved Oxygen	8.07	mg/L		
4/30/2019	Nutrient 2	Nutrients	Temperature	24.5	C		

Date Sampled	Site ID	Analysis Group	Component	Result	Unit	MDL	PQL
4/30/2019	Nutrient 2	Nutrients	pH	8.02			
4/30/2019	Nutrient 2	Nutrients	Specific Conductance	31955	umhos/cm		
4/30/2019	Nutrient 2	Nutrients	Sample Depth	0.3	m		
4/30/2019	Field Blank	Metals	Arsenic	0.050 U	ug/L	0.05	0.2
4/30/2019	Field Blank	Metals	Potassium	0.30 U	mg/L	0.3	1.2
4/30/2019	Field Blank	Metals	Silver	0.010 U	ug/L	0.01	0.04
4/30/2019	Field Blank	Metals	Iron	30 U	ug/L	30	120
4/30/2019	Field Blank	Metals	Sodium	0.50 U	mg/L	0.5	2
4/30/2019	Field Blank	Metals	Chromium	0.40 U	ug/L	0.4	1.6
4/30/2019	Field Blank	Metals	Lead	0.20 U	ug/L	0.2	0.4
4/30/2019	Field Blank	Metals	Selenium	0.20 U	ug/L	0.2	0.8
4/30/2019	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.3
4/30/2019	Field Blank	Metals	Nickel	0.50 U	ug/L	0.5	2
4/30/2019	Field Blank	Metals	Copper	1.1	ug/L	0.4	0.8
4/30/2019	Field Blank	Metals	Zinc	5.0 U	ug/L	5	20
4/30/2019	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
4/30/2019	Field Blank	Metals	Cadmium	0.020 U	ug/L	0.02	0.08
4/30/2019	Field Blank	Metals	Aluminum	5.0 U	ug/L	5	20
4/30/2019	Field Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.1
4/30/2019	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.2	0.6
4/30/2019	Field Blank	Nutrients	O-Phosphate-P	0.004 UYQ	mg P/L	0.004	0.01
4/30/2019	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.002	0.005
4/30/2019	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.5	1
4/30/2019	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6
4/30/2019	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.002	0.005
4/30/2019	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.2	0.6
4/30/2019	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
4/30/2019	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
4/30/2019	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.08	0.2
4/30/2019	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.1	0.13
4/30/2019	Field Blank	Overflow	2,3,7,8-TCDD	2.0 IJ	pg/L		
4/30/2019	Field Blank	Overflow	2,3,7,8-TCDF	0.32 IVJ	pg/L		
4/30/2019	Field Blank	Pesticides	Sucralose	0.010 U	ug/L	0.01	0.04
4/30/2019	Field Blank	Pesticides	Metalaxyl	0.22 UJ	ug/L	0.22	0.87
4/30/2019	Field Blank	Pesticides	Fonofos	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Naproxen	0.0080 U	ug/L	0.008	0.032
4/30/2019	Field Blank	Pesticides	Parathion Ethyl	0.024 U	ug/L	0.024	0.096

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4/30/2019	Field Blank	Pesticides	Malathion	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Hexazinone	0.084 U	ug/L	0.084	0.34
4/30/2019	Field Blank	Pesticides	Atrazine	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Azinphos Methyl	0.11 UJ	ug/L	0.11	0.43
4/30/2019	Field Blank	Pesticides	Metribuzin	0.060 U	ug/L	0.06	0.24
4/30/2019	Field Blank	Pesticides	Mevinphos	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Parathion Methyl	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Fenamiphos	0.036 UJ	ug/L	0.036	0.14
4/30/2019	Field Blank	Pesticides	Chlorpyrifos Methyl	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Ethion	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Diazinon	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Disulfoton	0.0060 U	ug/L	0.006	0.024
4/30/2019	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Atrazine Desisopropyl	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Ametryn	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Bromacil	0.048 U	ug/L	0.048	0.19
4/30/2019	Field Blank	Pesticides	Butylate	0.060 UJ	ug/L	0.06	0.24
4/30/2019	Field Blank	Pesticides	Demeton	0.029 U	ug/L	0.029	0.12
4/30/2019	Field Blank	Pesticides	Metolachlor	0.14 U	ug/L	0.14	0.58
4/30/2019	Field Blank	Pesticides	Norflurazon	0.060 U	ug/L	0.06	0.24
4/30/2019	Field Blank	Pesticides	Prometryn	0.024 U	ug/L	0.024	0.096
4/30/2019	Field Blank	Pesticides	Alachlor	0.072 U	ug/L	0.072	0.29
4/30/2019	Field Blank	Pesticides	Simazine	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Phorate	0.0060 UJ	ug/L	0.006	0.024
4/30/2019	Field Blank	Pesticides	Naled	0.096 U	ug/L	0.096	0.39
4/30/2019	Field Blank	Pesticides	Ibuprofen	0.020 U	ug/L	0.02	0.08
4/30/2019	Field Blank	Pesticides	Ethoprop	0.0060 U	ug/L	0.006	0.024
4/30/2019	Field Blank	Pesticides	Atrazine Desethyl	0.012 U	ug/L	0.012	0.048
4/30/2019	Field Blank	Pesticides	Prometon	0.024 U	ug/L	0.024	0.096
4/30/2019	Field Blank	Priority Organic Pollutants	1,4-Dioxane	0.020 U	ug/L	0.02	0.08
4/30/2019	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2,3,4,6-Tetrachlorophenol	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2,6-Dichlorophenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	12 U	ug/L	12	50
4/30/2019	Field Blank	Priority Organic Pollutants	3-Methylcholanthrene	0.12 U	ug/L	0.12	0.5

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4/30/2019	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Acetophenone	0.25 U	ug/L	0.25	1
4/30/2019	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.2 U	ug/L	1.2	5
4/30/2019	Field Blank	Priority Organic Pollutants	Chrysene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Dibenzofuran	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Dimethylaminoazobenzene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosodiethylamine	1.2 U	ug/L	1.2	5
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosomorpholine	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosopyrrolidine	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Pentachloronitrobenzene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Phenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	1,3,5-Trinitrobenzene	0.12 UJ	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	1,3-Dinitrobenzene	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	4-Nitrophenol	12 U	ug/L	12	50
4/30/2019	Field Blank	Priority Organic Pollutants	5-Nitro-o-toluidine	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Benzidine	12 U	ug/L	12	50
4/30/2019	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Carbazole	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Isophorone	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Naphthalene	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Pentachlorobenzene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Phenanthrene	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Pyrene	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Safrole	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	12 U	ug/L	12	50
4/30/2019	Field Blank	Priority Organic Pollutants	2-Acetylaminofluorene	1.2 U	ug/L	1.2	5
4/30/2019	Field Blank	Priority Organic Pollutants	2-Picoline	1.2 U	ug/L	1.2	5
4/30/2019	Field Blank	Priority Organic Pollutants	4-Aminobiphenyl	5.0 U	ug/L	5	20
4/30/2019	Field Blank	Priority Organic Pollutants	Anthracene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.031 U	ug/L	0.031	0.12

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4/30/2019	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	1,2,4,5-Tetrachlorobenzene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2-Naphthylamine	12 U	ug/L	12	50
4/30/2019	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Acenaphthene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Diethyl phthalate	2.5 U	ug/L	2.5	10
4/30/2019	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Dinoseb	5.0 U	ug/L	5	20
4/30/2019	Field Blank	Priority Organic Pollutants	Ethyl methanesulfonate	1.2 U	ug/L	1.2	5
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosomethylethylamine	2.5 U	ug/L	2.5	5
4/30/2019	Field Blank	Priority Organic Pollutants	Pentachloroethane	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	m,p-Cresols	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2,4,5-Trichlorophenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.8 U	ug/L	3.8	15
4/30/2019	Field Blank	Priority Organic Pollutants	2-Nitroaniline	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Aniline	1.2 U	ug/L	1.2	5
4/30/2019	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-butylamine	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Phenacetin	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Fluorene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Pyridine	5.0 U	ug/L	5	10
4/30/2019	Field Blank	Priority Organic Pollutants	1-Methylnaphthalene	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	7,12-Dimethylbenz(a)anthracene	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Benzyl alcohol	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	6.2 U	ug/L	6.2	25
4/30/2019	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.5 U	ug/L	2.5	10

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4/30/2019	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Isosafrole	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosopiperidine	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	o-Toluidine	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	1-Naphthylamine	12 U	ug/L	12	50
4/30/2019	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	2-Methylnaphthalene	0.12 U	ug/L	0.12	0.5
4/30/2019	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Fluoranthene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	Hexachloropropene	0.062 U	ug/L	0.062	0.25
4/30/2019	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.031 U	ug/L	0.031	0.12
4/30/2019	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.5 U	ug/L	2.5	10
4/30/2019	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.62 U	ug/L	0.62	2.5
4/30/2019	Field Blank	Priority Organic Pollutants	o-Cresol	0.062 U	ug/L	0.062	0.25