Biological Assessment of

Gulf Power-Lansing Smith Power Plant

Bay County

NPDES # FL0002267

Sampled June 10, 11, 12, 14, 2018

October 2019

Biology Program

DEP Laboratory

Division of Environmental Assessment and Restoration

DEP Laboratory Quality Manual

NELAC Certification No. E31780

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Summary of Results

During this sampling event, parameters collected, measured, and analyzed met effluent permit limits and the applicable Class II Water Quality Criteria (62-302.530, F.A.C.). The change in temperature between intake and outfall was not measured in this event and therefore, compliance for the temperature difference permit limit cannot be determined for this event. Seagrass was present at the Control Site but not at the Test Site. Sediment particle size was finer at the Test Site than at the Control Site. All metals detected in the sediment samples were below the Threshold Effects Level for sediment metals. Metals detected in the sediment were higher in the Test Site sample than in the Control Site sample. Metals tend to adhere more readily to finer particle sizes.

Facility Overview

The Gulf Power Lansing-Smith Facility is an electric generating facility. Coal-fired units (Unit 1 and 2) were retired in March 2016. The gas-fired combined cycle unit (Unit 3) currently operates a closed-loop system which consists of mechanical draft cooler towers. A Facility Summary, including a description of the facility, and summary of permit limits is provided in Appendix A. The effluent is continuously discharged into Warren Bayou, a Class II Marine Water in St. Andrew Bay.

The receiving waterbody, Warren Bayou, falls within the Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria for West Bay, within St. Andrew Bay (62-302.532, F.A.C.). The numeric thresholds for this receiving waterbody, expressed as annual geometric means, are 0.017 mg/L total phosphorus, 0.35 mg/L total nitrogen, and 3.8 µg/L chlorophyll *a*. St. Andrews Bay (West Bay, WBID 1061A) is impaired for total nitrogen and fecal coliforms (Statewide Comprehensive Verified List of Impaired Waters, list dated 08012018, https://floridadep.gov/dear/watershed-assessment-section/content/assessment-lists). This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

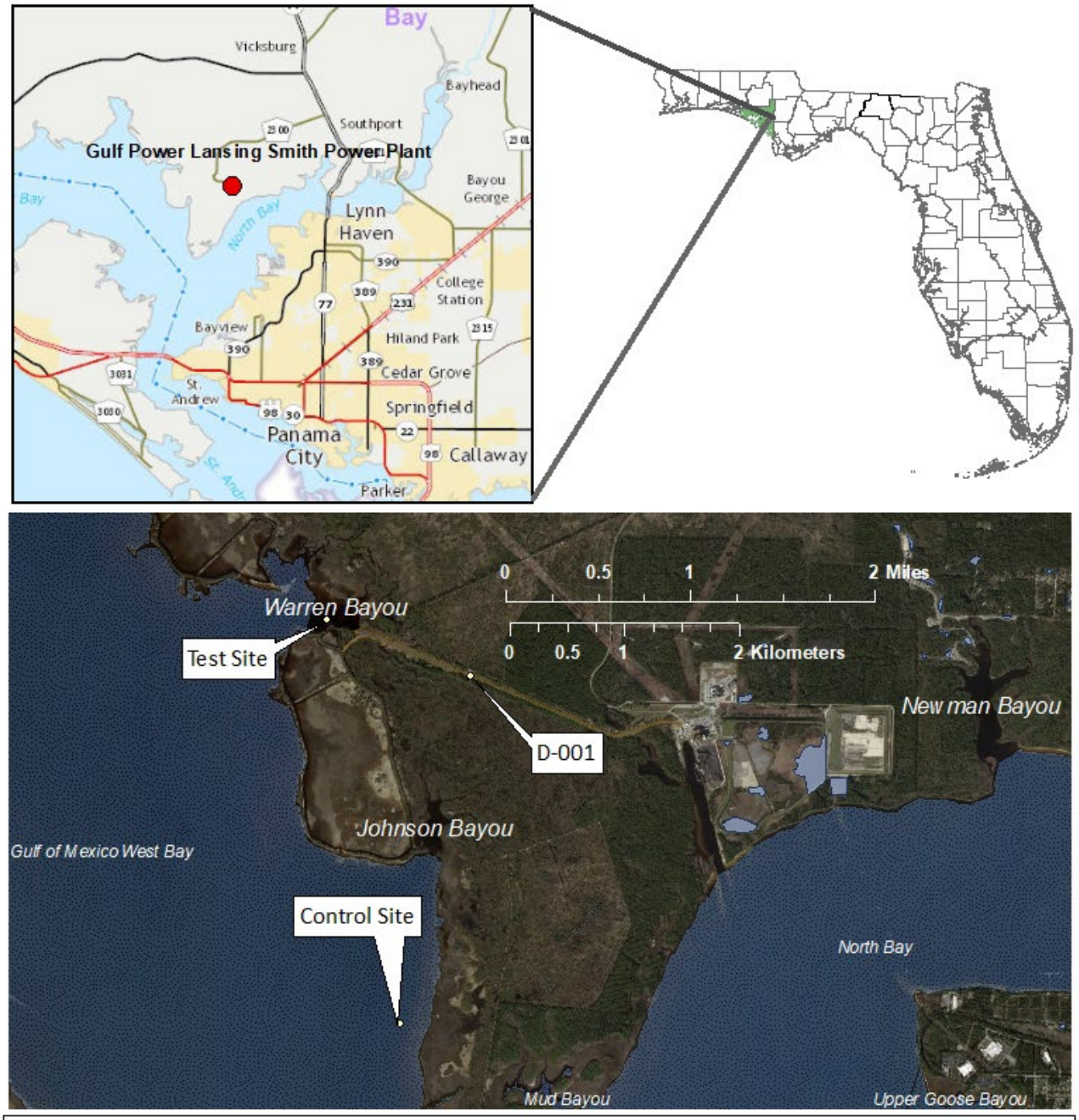
Effluent samples were taken as grab and composite samples from monitoring site location EFF-2. Physical/chemical parameters of the effluent were not measured by the samplers on the day of sampling; physical/chemical parameters of the effluent were provided by the facility. The effluent sample for metals analysis was taken as a grab sample, instead of an 8 hour time proportioned composite per permit. The second toxicity test renewal was collected as a grab sample, instead of a 24 hour time proportioned composite per permit and test method. Physical/chemical parameters were measured and water and sediment samples were collected at a Test Site in Warren Bayou (located approximately 999 m west of the point of discharge) and a Control Site (located in West Bay approximately 3,475 m south of the Test Site). See the Bioassessment Sampling Locations map.

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: Lucas Grantham, Larry Couch, and Mark Sumner (DEP Northwest District), Nathan Mulkey and Stopher Slade (DEP Northwest Regional Operation Center, Pensacola), and the 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).

Bioassessment Sampling Locations - Map



Results

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

- Both the Test and Control Sites were sampled on the outgoing tide.
- Seagrass was present at the Control Site.
- The effluent flow from D-001, as measured by the facility, was 68.4 MGD.

Analytical Water Chemistry (See Table 2 and Appendix E)

- Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria for West Bay, within St. Andrew Bay (62-302.532, F.A.C.) are expressed as annual geometric means. This FYI event only provides single sample results. Waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate a use impairment. For comparative purposes only, the single sample total phosphorus and chlorophyll *a* values were higher in the effluent grab sample than the numeric nutrient criteria thresholds for the region. The single sample total nitrogen (calculated) value was higher in the effluent, Control Site, and Test Site samples than the numeric nutrient criteria thresholds for the region.
- Total organic carbon was slightly lower in the effluent grab sample than in the Test Site and Control Site samples.
- Total phosphorus was twice as high in the effluent grab sample compared to the Test and Control Site samples. Nitrate and nitrite were detected in the effluent grab sample and not detected in the Test Site and Control Site samples. Total ammonia was approximately ten times greater in the effluent grab sample than in the Test Site and Control Site samples. Therefore, the calculated organic nitrogen was lower in the effluent grab sample than in the ambient water samples.
- Chloride, fluoride, and sulfate values were highest in the effluent grab sample, followed by the Test Site sample, and lowest in the Control Site sample.
- Fluoride, oil and grease, and radium 226 complied with effluent permit limits and/or Class II Water Quality Criteria (62-302.530, F.A.C.).

Microbiology (See Table 2 and Appendix E)

- Collected for ambient water only, fecal coliform and enterococci were detected in the Test Site and Control Site samples at levels which complied with Class II Water Quality Criterion (62-302.530(6)(a), F.A.C.).

Toxicity Whole Effluent Test (See Table 2 and Appendix E)

- Tests were performed June 12 through June 19, 2018.
- The effluent sample was not toxic to the mysid, *Americamysis bahia*, or the fish, *Menidia beryllina* during the chronic, definitive bioassay. One renewal sample was collected as a grab sample instead of a composite sample therefore, the effluent meets the permit limit but not the sampling requirements.
- 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)

- Effluent metals were detected at levels that met permit limits but not the sampling requirements because grab samples were collected instead of composite samples.
- Test Site and Control Site metals were either undetected or detected at levels that complied with Class II Water Quality Criteria (62-302.530, F.A.C.). Arsenic, calcium, magnesium, potassium, and sodium were highest in the effluent grab sample, followed by the Test Site sample, and lowest in the Control Site sample.
- A sample for effluent mercury was scheduled but not collected during this event.
- Copper was detected in the effluent blank at a higher value than in the effluent grab sample.

Algal Growth Potential (See Table 4 and Appendix E)

- AGP for all sites were conducted using the marine algal species *Dunaliella tertiolecta*.
- 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 of the Gulf Power effluent grab sample and Control Site sample were below this threshold, and the AGP of the Test Site was below detection for the saltwater species *Dunaliella tertiolecta*.
- Calculations for predicted AGP are not applicable to a marine matrix.
- The value for total nitrogen to phosphorus ratio suggests the effluent is co-limited (Miller et al 1978). Nitrate and nitrite and orthophosphate were not detected in the Test and Control Site samples. Using ½ the method detection level (MDL) for nitrate and nitrite and orthophosphate in the calculation for total nitrogen to phosphorus ratio, the ratio value suggests that the Test Site and Control Site are ortho-phosphate limited.

Organic Constituents (See Appendix E)

- Diethyl phthalate was detected between the MDL and the PQL in the effluent grab sample; the sample was improperly preserved; the sample was received outside of the acceptable temperature range.

Sediments (See Table 5, Figures 1 and 2)

- The Test and Control Site sediments were primarily composed of fine and medium sand. The Test Site sample overall, had a greater proportion of fine sediment than the Control Site sample.
- The percentage of sediment organic content was similar at both sites.
- All metals detected in the sediment samples were below the Threshold Effects Level for sediment metals.

Literature Cited

MacDonald, D. D. 1994. Approach to the assessment of sediment quality in Florida coastal waters. Volume 1. Development and evaluation of sediment quality assessment guidelines. Report to Florida Department of Environmental Protection, Office of Water Policy. 126 pp.

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

Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

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

Table 1. Effluent limits, Class II Waters Criteria, and field parameters

Parameter	Units	Class II Criteria	Effluent Permit Limits	Effluent	Test Site	Control Site
Sample Depth	m	-	-	-	0.3	0.3
Temperature	C	-	-	-	28.1	27.6
pH	SU	6.5 - 8.5	6.5 - 8.5	-	7.8	7.9
Specific Conductance	µmhos/cm	-	-	-	30,612	25,433
Salinity	ppt	-	-	-	18.9	15.5
Dissolved Oxygen	% saturation	≥ 42[1]	-	-	88.1	96.9
Dissolved Oxygen	mg/L	-	-	-	6.2	7.0
Flow	MGD	-	≤ 273.6	68.4	-	-

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

1 - 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. Effluent limits, Class II Waters Criteria, and analytical water chemistry, microbiological, and toxicological data

Parameter	Units	Class II Criteria	Effluent Permit Limits	Effluent Composite	Effluent Grab	Test Site	Control Site
Ortho-phosphate	mg P/L	-	-	-	0.006 IY	0.004 U	0.004 U
Total Phosphorus	mg P/L	0.017[2]	-	-	0.025	0.014	0.011
Total Ammonia	mg N/L	-	-	-	0.12	0.013	0.010
Un-ionized Ammonia (calculated salinity)	mg N/L	-	-	-	-	< 0.02 c	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	-	0.011	0.004 U	0.004 U
Total Kjeldahl Nitrogen	mg N/L	-	-	-	0.47	0.44	0.48
Organic Nitrogen	mg N/L	-	-	-	0.35 c	0.43 c	0.47 c
Total Nitrogen	mg N/L	0.35[2]	-	-	0.48 c	0.44 c	0.48 c
Total Organic Carbon	mg C/L	-	-	-	5.7	7.5	7.2
Chlorophyll *a* - Corrected	ug/L	3.8[2]	-	-	5.7	3.1	3.1
Phaeophytin	ug/L	-	-	-	1.1 I	0.40 U	0.40 U
CBOD, 5 day, N - inhibited	mg/L	-	-	-	1.2 I	2.5 JV	0.98 IVJ
Total Suspended Solids	mg/L	-	-	-	4 IA	3 U	3 I
Turbidity	NTU	< 29 t	-	-	2.5	2.2	1
Color (true)	PCU	-	-	-	29	45 A	45
Alkalinity	mg CaCO3/L	-	-	-	82	-	-
Chloride	mg Cl/L	≤ 10%[3]	-	-	12,000	10,000	8,600
Fluoride	mg F/L	≤ 5.0	-	-	0.87	0.76	0.64
Sulfate	mg SO4/L	-	-	-	1,700	1,500	1,200
Oils and Greases	mg/L	≤ 5.0	≤ 5.0	-	1.4 UY	-	-
Radium 226	pCi/L	≤ 15	-	0.324	-	0.288 U	0.364
Radium 226-Counting Error	pCi/L	-	-	0.207	-	0.191	0.216
Radium 228	pCi/L	-	-	0.752 V	-	0.590 V	0.755 V
Radium 228-Counting Error	pCi/L	-	-	0.34	-	0.345	0.344
Radium 226 + 228	pCi/L	≤ 5	-	1.076 c	-	0.59 c	1.119 c

Parameter	Units	Class II Criteria	Effluent Permit Limits	Effluent Composite	Effluent Grab	Test Site	Control Site
Fecal Coliforms	cfu/100 mL	≤ 800 s	-	-	-	42	2
Enterococci	MPN/100 mL	≤ 130	-	-	-	22 B	25 B
Bioassay - Mysid (*Americamysis bahia*), IC25	%	≥ 100 p	≥ 100 p	> 100	-	-	-
Bioassay - Fish (*Menidia beryllina*), IC25	%	≥ 100 p	≥ 100 p	> 100	-	-	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
p - 24 hour time proportioned composite
s - Single sample
t- Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptance range
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
V - Analyte was detected in both sample and method blank
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
2 - Estuary-specific numeric interpretations of the Narrative Nutrient Criterion (62-302.532, F.A.C.) for St. Andrew Bay, West, expressed as annual geometric means
3 - Not increased more than 10% above normal background. Normal daily and seasonal fluctuations shall be maintained

Table 3. Effluent limits, Class II Water Criteria and analytical metals data.

Parameter	Units	Class II Criteria	Effluent Permit Limits	Effluent Grab	Test Site	Control Site
Hardness	mg CaCO3/L	-	-	4,760 c	3,700 c	2,930 c
Aluminum	µg/L	≤ 1500	-	600 U	180 U	180 U
Arsenic	µg/L	-	-	3.17	1.67	1.37
Cadmium	µg/L	≤ 8.8	-	0.060 U	0.060 U	0.060 U
Calcium	mg/L	-	-	308	229	191
Chromium, Total [4]	µg/L	≤ 50	-	0.47 I	1.2 U	1.2 U
Copper [5]	µg/L	≤ 3.7	≤ 3.7	0.83 I	0.60 U	0.60 U
Iron	µg/L	≤ 300	≤ 300	300 U	170 I	90 U
Lead	µg/L	≤ 8.5	≤ 8.5	0.50 U	0.15 U	0.15 U
Magnesium	mg/L	-	-	968	760	596
Mercury	µg/L	≤ 0.025	-	-	0.001	0.001
Nickel	µg/L	≤ 8.3	≤ 8.3	0.64 I	0.60 U	0.60 U
Potassium	mg/L	-	-	285	226	176
Selenium	µg/L	≤ 71	-	0.60 U	0.60 U	0.60 U
Silver	µg/L	≤ 2.3 [6]	-	0.030 U	0.030 U	0.030 U
Sodium	mg/L	-	-	7820	5990	4980
Zinc	µg/L	≤ 86	-	50 U	3.0 U	3.0 U

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

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

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

4 - Class II Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI

5 - Copper was detected in the field blank at 1.48 µg/L

6 - Refers to criteria set in paragraph 62-302.500(1)(c), F.A.C.

Table 4. Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN), ortho-phosphate (OP), total nitrogen (TN) and total phosphorus (TP) limitation and ratios of nitrogen to phosphorus.

Location	Test Species	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent	*Dunaliella tertiolecta*	7.38	not applicable [7]	not applicable [7]	not applicable [7]	not applicable [7]	21.8	19.2
Test Site	*Dunaliella tertiolecta*	3.00 U	not applicable [7]	not applicable [7]	not applicable [7]	not applicable [7]	7.5 [8]	31.5 [8]
Control Site	*Dunaliella tertiolecta*	3.7	not applicable [7]	not applicable [7]	not applicable [7]	not applicable [7]	6.0 [8]	43.8 [8]

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

7- predictions not applicable to marine matrix

8- nitrate-nitrite and orthophosphate were not detected in the Test Site and Control Site samples; N:P ratios calculated using ½ method detection level (MDL) for the non-detect values.

Table 5. Sediment grain size distribution, organic content, analytical metals data

	Units	Sediment Quality Assessment Guidelines		Test Site	Control Site
		TEL	PEL		
Particle Size Distribution					
< 0.0039 mm	% vol	-	-	3.11 A	1.93
0.0039-0.0078 mm	% vol	-	-	3.80 A	2.06
0.0078-0.0156 mm	% vol	-	-	4.80 A	2.3
0.0156 - 0.031 mm	% vol	-	-	3.94 A	1.83
0.031-0.0625 mm	% vol	-	-	3.75 A	1.46
0.0625-0.125 mm	% vol	-	-	8.86 A	6.06
0.125-0.25 mm	% vol	-	-	28.0 A	30.3
0.25-0.50 mm	% vol	-	-	31.8 A	39.1
0.50-1.0 mm	% vol	-	-	11.0 A	12
1.0-2.0 mm	% vol	-	-	0.950 AJ	2.92
> 2.0 mm	% totdrywt	-	-	1.00 K	1.00 K
Organic Content					
Organic Content	% dry wt	-	-	1.6 A	1.3
Metal					
Arsenic	mg/Kg	7.24	41.6	1.83	0.478
Cadmium	mg/Kg	0.676	4.21	0.025 I	0.015 I
Chromium	mg/Kg	52.3	160	6.45	2.77
Copper	mg/Kg	18.7	108	2.19	0.56
Lead	mg/Kg	30.2	112	2.23	1.17
Nickel	mg/Kg	15.9	42.8	1.3 I	0.65 I
Silver	mg/Kg	0.733	1.77	0.0072 I	0.0047 I
Zinc	mg/Kg	124	271	7.6 I	4.7 U

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

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

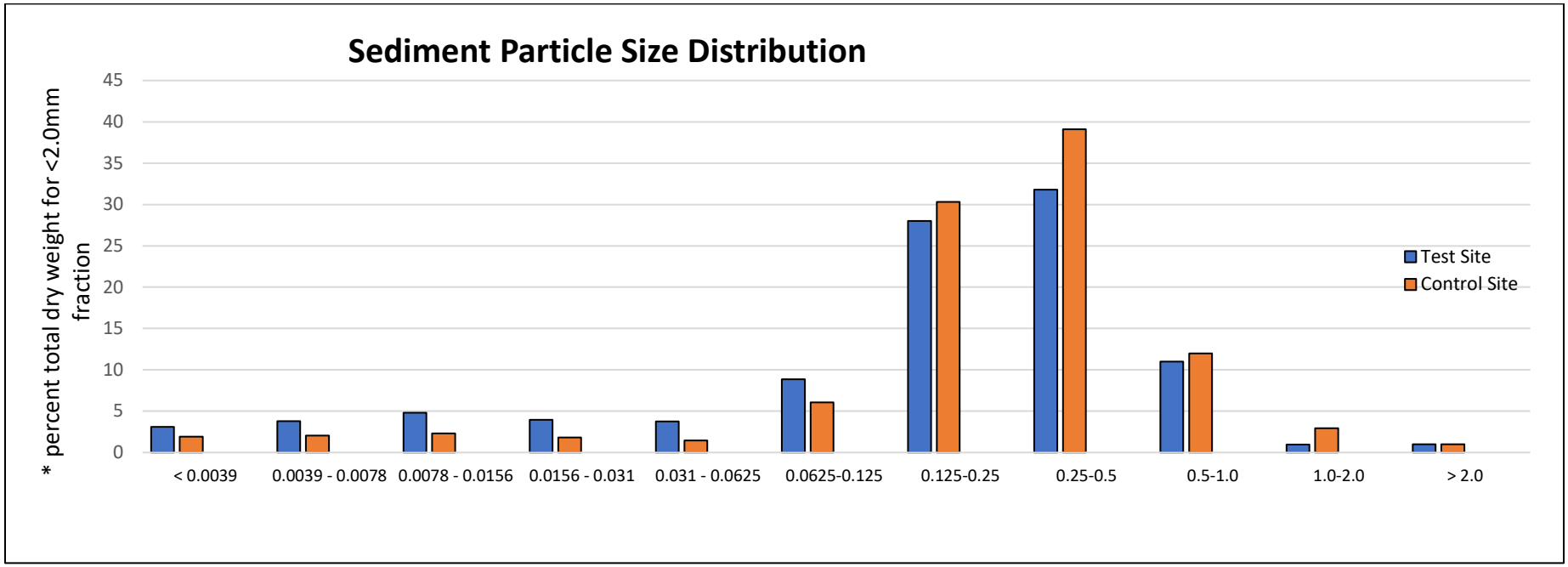
I - The reported value is between the laboratory method detection limit and the laboratory quantitation limit

J - Estimated value

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

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

Figure 1. Sediment particle size distribution.



Appendix A
Facility Summary
State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Lucas Grantham	Contact Number: 850-767-0041
Facility Name (as it appears on permit): Gulf Power Lansing Smith Power Plant	Former Names: N/A
NPDES Permit Number: FL0002267	Permit Expiration Date: 10/16/2019
Physical Address: 2300 Bay County Road, Southport, FL 32409	
District: NWD	County: Bay
Function of Facility: Power Plant Electric Generating Plant	
Facility Type: Industrial Wastewater	Permitted Capacity (MGD): 273.6 MGD daily max
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 70.17MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): N/A	
Description of type of Discharge: ☒ Continuous ☐ Intermittent ☐ Seasonal ☐ Rainfall Dependent ☐ Other, please specify:	
Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): INT-2 Once-through cooling water circulator pumps logs. OTH-1 The difference between the temperature at the Once-through cooling water condenser inlet and Once-through cooling water discharge structure. EFF-2 Immediately downstream of the center of the second roadway embankment across the discharge canal downstream of the discharge structure. EFF-5 The main yard sump at the nearest accessible point prior to discharge. EFF-3 Discharge from metal cleaning waste treatment pond prior to discharge to the ash pond.	

EFF-7 The end of the discharge structure leading from the cooling tower exit and prior to being

discharged to the discharge canal.

EFF-4 Ash pond discharge parshall flume.

FLW-1 Flow-meter and totalizer for domestic effluent.

OUI-6 Effluent wet well.

OTH-2 Calculated value.

INF-1 Domestic influent monitoring location.

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 273.6 MGD Daily Maximum Flow permitted discharge to Warren Bayou, Class II Waters (WBID 1061A). The point of discharge is located approximately at latitude 30°16' 24" N, longitude 85°43' 15" W.

Surface Water Discharge D-00D: An existing 0.01 MGD Daily Maximum Flow permitted discharge to Alligator Bayou, Class III Marine Waters (WBID 1026). The point of discharge is located approximately at latitude 30°16' 04" N, longitude 85°42'03" W.

Internal Outfall I-01A: An existing 0.0075 MGD Annual Average Daily Flow permitted discharge to ash pond.

Internal Outfall I-01C: An existing permitted discharge to the discharge canal leading to Outfall D-001.

Internal Outfall I-015: An existing permitted discharge to the ash pond.

Internal Outfall I-017: An existing permitted discharge to the discharge canal, thence to Warren Bayou.

Underground Injection Control (UIC): A mixture of reclaimed domestic wastewater from various municipal wastewater treatment plants and a portion of wastewater from the ash pond is permitted to be discharged to the existing on-site UIC system. Currently there are three UIC wells at Plant Smith. The facility is proposing to utilize reclaimed wastewater as a future make-up water source to the Unit 3 recirculation cooling water system. Blowdown from the Unit 3 cooling tower would then be injected in the UIC system. A portion of the ash pond wastewater will also be discharged to the UIC system. Discharge to the UIC is covered under a separate permit, UIC Permit Number 0177034-005 to 009-UC/11.

Occasional injection and monitoring well purge water and injection well pump system back flows will be routed back to the ash pond. The existing Unit 3 cooling tower intake and discharge located in the discharge canal will remain in place to serve the Unit 3 cooling tower when the reclaimed water supply is not in operation.

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

Once-through cooling water (OTCW), cooling tower blowdown, and overflow from the ash pond discharge to the discharge canal. All other wastewaters from the operation of Units 1 and 2 are discharged to the ash pond. Wastewater streams that discharge to the ash pond include boiler blowdown, water treatment filter backwash, air preheater wash, ash and pyrite sluice, coal pile runoff, yard runoff, landfill runoff, treated metal cleaning waste, treated demineralizer regeneration waste, treated domestic wastewater, and other minor process and non-process waste streams. Demineralizer regeneration wastewater is neutralized and allowed to settle in a retention pond prior

to discharge to the ash pond. Other demineralizer wastewater composed of (1) green sand filter backwash; (2) multimedia filter backwash; and (3) reverse osmosis concentrate are routed to an existing stormwater sump and then discharged to the existing ash ponds. Metal cleaning waste is neutralized in pipe and is chemically precipitated and allowed to settle in the metal cleaning wastewater pond prior to discharge to the ash pond. Domestic wastewater receives secondary treatment in an extended aeration package treatment plant prior to on-site recycling in the ash pond.

Boiler blowdown from the two HRSGs is routed to the main yard sump to be discharged to the existing ash ponds. Gas turbine and equipment waste are drained to an oil-water separator, from which wastewater will be drained to the site wastewater sump before being pumped to the existing ash ponds. Transformer enclosure drains are used to drain and release collected stormwater to the site run-off water system.

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)

A. Surface Water Discharges

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Once-Through Non-Contact Cooling Water, Ash Pond Overflow, and Cooling Tower Blowdown** from **Outfall D-001** to Warren Bayou. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Hourly	Pump Logs	INT-2	
Temp. Diff. between Intake and Discharge	Deg F	Max Max Max Max	Report 18 Report 20	Daily Maximum Monthly Average Daily Maximum Monthly Average	4/Day	Calculated	OTH-1	April-Sept See I.A.4 Oct.-March See I.A.4
pH	s.u.	Min Max	6.5 8.5	Daily Minimum Daily Maximum	Weekly	Grab	EFF-2	
Oxidants, Total Residual	mg/L	Max	0.01 0.01	Daily Maximum Monthly Average	Weekly	Grab	EFF-2	See I.A.5 and I.A.6
Oil and Grease	mg/L	Max	5.0 5.0	Daily Maximum Monthly Average	Monthly	Grab	EFF-2	
Copper, Total Recoverable	ug/L	Max	3.7 3.7	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Iron, Total Recoverable	mg/L	Max	0.3 0.3	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Lead, Total Recoverable	ug/L	Max	8.5 8.5	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Nickel, Total Recoverable	ug/L	Max	8.3 8.3	Daily Maximum Monthly Average	Annually	8-hr TPC	EFF-2	See I.A.7
Chronic Whole Effluent Toxicity, 7-Day IC25 (Americamysis bahia)	percent	Min	100	Single Sample	Semi-annually	24-hr TPC[1]	EFF-2	See I.A.10

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)

A. Surface Water Discharges

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Once-Through Non-Contact Cooling Water, Ash Pond Overflow, and Cooling Tower Blowdown** from **Outfall D-001** to Warren Bayou. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3:

Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	percent	Min	100	Single Sample	Semi-annually	24-hr TPC[1]	EFF-2	See I.A.10

B. Internal Outfalls

During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge Ash Pond Overflow from I-01C to the Discharge Canal leading to Outfall D-001. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Daily	Meter[5]	EFF-4	
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Weekly	Grab	EFF-4	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Weekly	Grab	EFF-4	
Oil and Grease	mg/L	Min Max	15.0 20.0	Monthly Average Daily Maximum	Weekly	Grab	EFF-4	
Arsenic, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Cadmium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Chromium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	See I.B.16
Copper, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	

Iron, Total Recoverable	mg/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Lead, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Mercury, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Nickel, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Selenium, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Zinc, Total Recoverable	ug/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Radium 226 + Radium 228, Total	pCi/L	Max	Report	Daily Maximum	Semi-Annually[6]	24-hr TPC	EFF-4	
Nitrite plus Nitrate, Total (as N)	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	
Nitrogen, Total	mg/L	Max	Report	Monthly Average	Monthly	Grab	EFF-4	
Nitrogen, Total, Monthly Loading	lbs/ month	Max	Report	Monthly Total	Monthly	Calculated	EFF-4	
Nitrogen Total, Annual Loading	lbs/ year	Max	Report	12-Month Rolling Total	Monthly	Calculated	EFF-4	

PART I: Continued	
Receiving Waters: Warren Bayou	Classification (indicate whether fresh or marine): Class II Marine

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

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

a. Effluent Limitation
   (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. *[62-302.530(61) and (1)(b), F.A.C.]*
   (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test.
   [62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]

b. Monitoring Frequency
   (1) Routine toxicity tests shall be conducted once every six months, the first starting within 60 days of the issuance date of this permit and lasting for the duration of this permit.
   (2) If applicable, upon completion of four consecutive valid routine tests that demonstrate compliance with the effluent limitation in 11.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency to once every six months. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four consecutive valid routine tests that demonstrate compliance with the effluent limitation in 11.a.(1) above.
   (3) If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821- R-02-014, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.

c. Sampling Requirements
   (1) For each routine test or additional follow-up test conducted, a total of three 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%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.
   (2) The permittee shall conduct 7-day survival and growth chronic toxicity tests with a mysid shrimp, **Americamysis (Mysidopsis) bahia**, Method 1007.0, and an inland silverside, **Menidia beryllina**, Method 1006.0, 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 Marine and Estuarine Organisms**, 3rd Edition, EPA-821-R-02-014. 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 used shall be artificial sea salts as described in EPA-821-R-02- 014, Section 7.2. The test salinity shall be determined as follows:

(a) For the **Americamysis bahia** bioassays, the effluent shall be adjusted to a salinity of 20 parts per thousand (ppt) with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 20 ppt. If the salinity of the effluent is greater than 20 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.

(b) For the **Menidia beryllina** bioassays, if the effluent salinity is less than 5ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.

(c) If the salinity of the effluent requires adjustment, a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.

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

N/A

Facility Mixing Zone Details (if applicable):

N/A

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

Date	Parameter and Units	Limit	Result
12/31/2017	Iron, Total Recoverable (Monthly Average)	0.0mg/L	0.95mg/L
12/31/2017	Iron, Total Recoverable (Daily Maximum)	0.0mg/L	0.95mg/L

Describe previous FYI and WQBEL study:

The previous FYI5 was conducted September 16, 2013. The FYI5 report concluded that the Algal Growth Potential was undetected in the effluent and at the Control and Test Sites and does not reflect nutrient enrichment at the Test Site. Iron levels detected in the effluent exceeded the Class II Marine Quality Criterion and the effluent permit limits.

Describe previous or current Enforcement Actions (including WLs):

N/A

Describe any violations or problems noted in previous inspection: There were no non-compliance issues noted during the March 29, 2016 compliance evaluation inspection.
Discuss whether DMR trends within previous five years are improving or declining: 04/30/2013-04/30/2018 There have been four total violations. These violations occurred in 2016 and 2017 and there have been no violations since 12/31/2017. This is a very low number of violations for such a large date range.
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse): N/A

PART II: Sampling Event Information	
Date(s) sample collected: June 11, 13,15, 2018	Sampler(s): Lucas Grantham, Mark Sumner, Nathan Mulkey, Larry Couch
Temperature (Deg C):	pH (SU):
Dissolved Oxygen (mg/L):	Conductivity (umhos/cm):
Total Residual Chlorine (mg/L): Not measured at final outfall.	Total Residual Chlorine - after Disinfection (mg/L): Not measured at final outfall
Method of Chlorination: Liquid	Method of De-chlorination: N/A
Flow During Sample Collection for each outfall(MGD): D-001: 68.4 MGD for all days.	
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): 70.17 MGD	
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: None	

Appendix B

Explanation 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. New limits for *Escherichia coli* (*E. coli*), enterococci, and total ammonia nitrogen were approved on 07/24/2017**.**

1) Quality Assurance and Quality Control

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).

2) 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.

3) 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(61) 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(61) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

4) Bacteriological Testing

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

5) Habitat Assessment

Habitat assessment is used to evaluate the physical structure and extent of disturbance in a waterbody. Eight aspects are ranked, with 20 possible points for each aspect (QA Rule SOP FT 3100). The Habitat Assessment score includes types and amounts of benthic substrates, water velocity, amount of sand or silt accumulation, extent of artificial channelization, bank stability, and riparian zone width and vegetation type. All scores are summed to yield an overall Habitat Assessment score. Habitat Assessment score ranges from 11-160 and overall habitat quality is assigned to one of four categories: Optimal (120-160 points), Suboptimal (80-119 points), Marginal (40-79 points), and Poor (11-39 points).

6) 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. Raschke and Shultz (1987) found that an AGP above 10.0 mg dry weight/L represents a “problem” threshold for marine receiving waters, implying nutrient enrichment. High AGP values may constitute exceedances of 62-302.530(46) F.A.C., 62-302.530(47)(a) F.A.C. and/or 62-302.530(47)(b) F.A.C.

The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP in a low salinity sample 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 $\pm$ 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(61), F.A.C.. Expected AGP is not calculated for marine samples incubated with *Dunaliella*.

7) Sediment Sampling

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

8) 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-2018-06-11-28

FYI5_Gulf Power - Lansing Smith Power Plant_ Sampling Inspection FL0002267

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Lillian Haynes

Field Report Prepared By: Lucas Grantham

Collected By: Larry Couch / Lucas Grantham

Sampling Agency: DEP

Location: Gulf Power Lansing Smith EFF2	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 6/10/18 Time 9:30	Eastern Central	Composite end Date 6/11/18 Time 9:30	Bottle Group(s) (See pg 2): B						
Field ID: EFF2	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)								
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Samples taken @ 9:40. preserved immediately								
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
					6-12-18 9:58

6.12.18 1055 Drew Fulcher DF

Request Number: RQ-2018-06-11-28

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

FYI5_Gulf Power - Lansing Smith Power Plant_ Sampling Inspection FL0002267

Customer: NW-DIST

Project ID: FYI5

Requester: Lillian Haynes

Field Report Prepared By: Lucas Grantham

Collected By: Lucas Grantham

Sampling Agency: FDEP

Location: Gulf Power Lansing - EFF 2	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 6/12/18 Time 230	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2): B	
Field ID	Matrix (type, e.g., Salt, Fresh, etc): Salt		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 Tox Grabs for wed renewal				
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
					6-13-18

MA 2 Dissolved Oxygen Jugs
1 Beaker cup
6-13-18 1209

Request Number: RQ-2018-06-11-28

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

FYI5_Gulf Power - Lansing Smith Power Plant_ Sampling Inspection FL0002267

Customer: NW-DIST

Project ID: FYI5

Requester: Lillian Haynes

Field Report Prepared By: Lucas Grantham

Collected By: Lucas Grantham

Sampling Agency: FDEP

Location: EFF-2 composite	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 6/12/18 Time 930	Eastern Central	Composite end Date 6/13/18 Time 930	Bottle Group(s) (See pg 2): B					
Field ID: BSA ; Mercury	Matrix (type, e.g., Salt, Fresh, etc): Salt			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: Sampled ; Preserved @ 938 / *Sabadow							
Location: EFF-2 Grab	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/13/18 Time 1008	Eastern Central	Composite end Date Time	Bottle Group(s): A					
Field ID	Matrix (type, e.g., Salt, Fresh, etc): Salt			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: Ortho-P No Filter							
Location: EFF-2 Blanks	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/13/18 Time 1032	Eastern Central	Composite end Date Time	Bottle Group(s): E					
Field ID	Matrix (type, e.g., Salt, Fresh, etc): ~~Salt~~ LR DI			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)					
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)						
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: *2							
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
				Tyler K.	6/14/18 10:15

*- only received 3 empty Hg bottles and 1 Temp Control in that cooler
- No field blank bottle provided.

*2 RAI) comp Sampled 6/11/18: Blanks Sampled Today 6/13/18 ~~6/18/18~~ Lu

Request Number: RQ-2018-06-11-28

FYI5_Gulf Power - Lansing Smith Power Plant_ Sampling Inspection FL0002267

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Lillian Haynes

Field Report Prepared By: Lucas Grantham

Collected By: Lucas Grantham

Sampling Agency: FDEP

Location: EFF-2	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 6-14-18 Time 9:30	Eastern Central	Composite end Date 6-15-18 Time 930			Bottle Group(s) (See pg 2): B
Field ID	Matrix (type, e.g., Salt, Fresh, etc): Salt			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: TOX				
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
					6.16.18 0920

Blue cooler 1.1°C + 0.9°C

Red cooler #1 0.5°C + 0.8°C

Red cooler #2 0.4°C + 1.4°C

ABB 6-18-18

Request Number: RQ-2018-06-11-28

FYI5_Gulf Power - Lansing Smith Power Plant_ Sampling Inspection FL0002267

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Lillian Haynes

Field Report Prepared By: N. Milke

Collected By: Nathan Milke / Stephen Slade

Sampling Agency: FDEP NW/ROC

Location: West Bay	☐ Comp ☒ Grab	Collection (comp begin or grab) Date: 6/11/18 Time: 1030	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2): C/D				
Field ID: Gulf Power Control	Matrix (type, e.g., Salt, Fresh, etc): Salt	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C): 27.64	pH: 7.03	Sample Depth: 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm): 25433						
Latitude: 30.24601 ☒ dd ☐ dms	Longitude: 85.72673 ☒ dd ☐ dms	Salinity (ppt)	Comments: Low Level Hg 0601-T5							
Location: Warren Bayou	☐ Comp ☒ Grab	Collection (comp begin or grab) Date: 6/11/18 Time: 1125	Eastern Central	Composite end Date	Time	Bottle Group(s): C/D				
Field ID: Gulf Power East	Matrix (type, e.g., Salt, Fresh, etc): Salt	Diss. Oxygen: 6.22	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C): 28.10	pH: 7.76	Sample Depth: 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm): 30602						
Latitude: 30.27754 ☒ dd ☐ dms	Longitude: 85.73395 ☒ dd ☐ dms	Salinity (ppt)	Comments: Low Level Hg							
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
	6/11/18	Fed Ex	2		6-12-18 / 9:30

Biology Sediment only. 6-12-18.

The Water Spigot
5806 E. Hwy. 22 * Panama City, FL 32404
(850) 871-1900 * Fax (850) 871-9303
Email:trishj-waterspigot@comcast.net

No. 64827

CHAIN OF CUSTODY RECORD

Company Name / Plant: FDEP
Company Address: 160 W Govt St
City, State, Zip: Pensacola, FL, 32502
Sent Report To:
Copy To DEP / DOH (circle one) Yes / No
Email Address: Yes / No
Phone #: 850 595 0626
Fax #: US
Fax Results ___ Yes / No

Project Name: RCI-2018-06-11-28 Gulf Power FDEP
Lab Dispose / Return to Client / Other
Sample #
Container #
Check If Rush
Special Instructions
P.O. #

OF CONTAINERS

Analysis Requested

Sampling Date	Sampling Time	Type: Comp	Type: Grab	Matrix: Water	Matrix: Sludge	Matrix: W. Water	Matrix: Soil	Sample Site (Be Specific)	# of Containers	Analysis Requested: Entero MF	Analysis Requested: Fecal Coli MF	Field Data: Temp.	Field Data: CL2	Field Data: pH
6/11/18	1020		X	X				Gulf Power Control	1	X	X	20.4		7.86
↓	1125		X	X				Gulf Power Test	1	X	X	28.10		7.76

Preservative Codes: A - Ammonium Chloride; C - Cool Only; H - Hydrochloric Acid; M - Monochloracetic Acid; N - Nitric Acid; OH - Sodium Hydroxide; S - Sulfuric Acid; T - Sodium Thiosulfate; Z - Zinc Acetate

Container Codes: V - VOA vial; G - glass; P - plastic; M - micro bag/cup; O - Other

Sampled By & Title	Date	Time	Relinquished By	Date / Time
Nathan Mulkey	6/11/18		Nathan Mulkey	6/11/18 1325
Received By			Relinquished By	Date / Time
Received By			Relinquished By	Date / Time
Received By			Shipped VIA: UPS BUS HAND FED EX OTHER	
Received in Lab By: [illegible]	6-11-18	1324	Remarks	Temp. Received in Lab: 3.6 / 3.8

Distribution: Original - LAB Yellow - CLIENT

Appendix D

Physical/Chemical and Habitat Assessment field sheets

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/25/00)

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
30.27254 85.73395		6/11/18	1125	West Bay

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
FDS Gulf Power	Bay	Warren Bayou	Gulf Power Test

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)

Local Watershed Erosion (check box): None ☐ Slight ☐ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Slight ☐ Moderate potential ☐ Obvious sources ☐

Width of riparian vegetation (m) on least buffered side:

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized ☐ no ☐ recent, severe ☐ some recovery ☐ mostly recovered, more sinuous
Artificially Impounded ☐ yes

High Water Mark: ____ (m above present water level) + ____ (present depth in m) = ____ (m above bed)

Tide Types and Times

High	09:13 AM/PM		: AM/PM
Low	18:50 AM/PM		: AM/PM

Canopy Cover %: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐ ____

Sediment Oils: Absent: ☒ Slight: ☐ Moderate: ☐ Profuse: ☐

Sediment Deposition: Sludge: ☐ Sand smothering: (none) slight moderate severe Silt smothering: (none) slight moderate severe Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand			
Rock or Shell Rubble				Mud/Muck/Silt			
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ ____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) ~~or Salinity (ppt)~~:	Salinity	O2 %	Secchi (m):
Top	0.3	28.10	7.76	6.22	30612	18.94	88.1	1.4
Mid-depth								
Bottom	0.9	28.32	7.51	3.84	35611	22.42	56.6	UOB

System Type: Stream: ☐ (1st - 2nd order 3rd - 4th order 5th - 6th order 7th order or greater) Estuary: ☒ Other: ☐ ____

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ ____

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐ ____

Weather Conditions/Notes:
Low Level Hg 0601-T2

Total Depth = 1.4m

Abundance:	Absent	Rare	Common	Abundant
Periphyton	☐	☐	☐	☐
Fish	☐	☐	☐	☐
Aquatic Macrophytes	☐	☐	☐	☐
Iron/sulfur Bacteria	☐	☐	☐	☐

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Melby / Stephen Slade	Nathan Melby	6/11/18

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/25/00)

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
30.2401 85.2673		6/11/18	1030	Gulf of Mexico

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
FYI5 Gulf Power	Bay	West Bay	Gulf Power Control

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)

Local Watershed Erosion (check box): None ☐ Slight ☐ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Slight ☐ Moderate potential ☐ Obvious sources ☐

Width of riparian vegetation (m) on least buffered side:

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized ☐ no ☐ recent, severe ☐ some recovery ☐ mostly recovered, more sinuous

Artificially Impounded ☐ yes

High Water Mark: _____ (m above present water level) + _____ (present depth in m) = _____ (m above bed)

Tide Types and Times

High 09:13 AM / PM : AM / PM

Low 18:50 AM / PM : AM / PM

Canopy Cover % : Open : ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐ _____

Sediment Oils: Absent: ☒ Slight: ☐ Moderate: ☐ Profuse: ☐

Sediment Deposition: Sludge: ☐ Sand smothering: (none) slight moderate severe Silt smothering: (none) slight moderate severe Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand			
Rock or Shell Rubble				Mud/Muck/Silt			
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☒ Seagrass

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Salinity	O2 %	Secchi (m):
Top	0.3	27.64	7.86	7.03	25433	15.45	96.9	1.6
Mid-depth								
Bottom	1.6	27.64	7.27	2.03	30852	19.09	28.8	UOB

System Type : Stream: ☐ (1st - 2nd order 3rd - 4th order 5th - 6th order 7th order or greater) Estuary: ☒ Other: ☐ _____

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ _____

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐ _____

Weather Conditions/Notes:

Low Level Hg 0601-T5

Total Depth: 1.6 m

Abundance:

	Absent	Rare	Common	Abundant
Periphyton	☐	☐	☐	☐
Fish	☐	☐	☐	☐
Aquatic Macrophytes	☐	☐	☐	☐
Iron/sulfur Bacteria	☐	☐	☐	☐

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Malloy / Stephen Skole		6/11/18

Appendix E

Chemical analysis of effluent and receiving water

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/13/2018 11:32	EFF - 2 Blank	Metals	Sodium	0.50 U	mg/L	0.5	2
6/13/2018 11:32	EFF - 2 Blank	Metals	Copper	1.48	ug/L	0.2	0.8
6/13/2018 11:32	EFF - 2 Blank	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
6/13/2018 11:32	EFF - 2 Blank	Metals	Potassium	0.30 U	mg/L	0.3	1.2
6/13/2018 11:32	EFF - 2 Blank	Metals	Selenium	0.20 U	ug/L	0.2	0.8
6/13/2018 11:32	EFF - 2 Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.3
6/13/2018 11:32	EFF - 2 Blank	Metals	Zinc	5.0 U	ug/L	5	20
6/13/2018 11:32	EFF - 2 Blank	Metals	Chromium	0.40 U	ug/L	0.4	1.6
6/13/2018 11:32	EFF - 2 Blank	Metals	Lead	0.050 U	ug/L	0.05	0.2
6/13/2018 11:32	EFF - 2 Blank	Metals	Cadmium	0.020 U	ug/L	0.02	0.08
6/13/2018 11:32	EFF - 2 Blank	Metals	Nickel	0.20 U	ug/L	0.2	0.8
6/13/2018 11:32	EFF - 2 Blank	Metals	Silver	0.010 U	ug/L	0.01	0.04
6/13/2018 11:32	EFF - 2 Blank	Metals	Iron	30 U	ug/L	30	120
6/13/2018 11:32	EFF - 2 Blank	Metals	Arsenic	0.050 U	ug/L	0.05	0.2
6/13/2018 11:32	EFF - 2 Blank	Metals	Aluminum	60 U	ug/L	60	240
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Turbidity	0.10 U	NTU	0.1	0.13
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.08	0.2
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Total-P	0.002 U	mg P/L	0.002	0.005
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.1
6/13/2018 11:32	EFF - 2 Blank	Nutrients	O-Phosphate-P	0.004 UY	mg P/L	0.004	0.01
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.002	0.005
6/13/2018 11:32	EFF - 2 Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.2	0.5
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.2	0.5
6/13/2018 11:32	EFF - 2 Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.5	1
6/13/2018 11:32	EFF - 2 Blank	Overflow	Radium 226	0.403 U	pCi/L	0.403	
6/13/2018 11:32	EFF - 2 Blank	Overflow	Radium 228	0.507 U	pCi/L	0.507	
6/13/2018 11:32	EFF - 2 Blank	Overflow	Radium 226-Counting Error	0.242	pCi/L	0.403	
6/13/2018 11:32	EFF - 2 Blank	Overflow	Radium 228-Counting Error	0.27	pCi/L	0.507	
6/13/2018 11:32	EFF - 2 Blank	Overflow	HEM	1.5 U	mg/L	1.5	5.3

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/13/2018 11:08	EFF- 2 Grab	AGP/LN	Algal Growth Potential-Salinity Adjusted	7.38	mg DryWt/L	3	3
6/13/2018 11:08	EFF- 2 Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	5.7	ug/L	0.55	1.7
6/13/2018 11:08	EFF- 2 Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	6.5	ug/L	0.4	1.2
6/13/2018 11:08	EFF- 2 Grab	Chlorophyll/Grain Size/BOD	Biochemical O_2 Demand-5 Day,N-Inhib	1.2 I	mg/L	0.2	2
6/13/2018 11:08	EFF- 2 Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.1 I	ug/L	0.4	1.2
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Kjeldahl Nitrogen	0.47	mg N/L	0.16	0.4
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Color (true)	29	PCU	2.5	6
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Total-P	0.025	mg P/L	0.004	0.01
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Chloride	1.20E+04	mg Cl/L	40	100
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Fluoride	0.87	mg F/L	0.18	0.5
6/13/2018 11:08	EFF- 2 Grab	Nutrients	NO2NO3-N	0.011	mg N/L	0.004	0.01
6/13/2018 11:08	EFF- 2 Grab	Nutrients	O-Phosphate-P	0.006 IY	mg P/L	0.004	0.01
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Organic Carbon	5.7	mg C/L	1	2
6/13/2018 11:08	EFF- 2 Grab	Nutrients	TSS	4 IA	mg/L	3	10
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Turbidity	2.5	NTU	0.1	0.13
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Sulfate	1.70E+03	mg SO4/L	40	100
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Ammonia-N	0.12	mg N/L	0.002	0.005
6/13/2018 11:08	EFF- 2 Grab	Nutrients	Total Alkalinity	82	mg CaCO3/L	0.65	2.5
6/13/2018 11:08	EFF- 2 Grab	Overflow	HEM	1.4 UY	mg/L	1.4	5
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Ethion	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Azinphos Methyl	0.019 U	ug/L	0.019	0.076
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Ibuprofen	0.020 UJY	ug/L	0.02	0.08
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Hexazinone	0.029 UJ	ug/L	0.029	0.11
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Fenamiphos	0.029 UJ	ug/L	0.029	0.11
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Disulfoton	0.0048 U	ug/L	0.0048	0.019
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Butylate	0.019 U	ug/L	0.019	0.076
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Atrazine	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Parathion Ethyl	0.019 U	ug/L	0.019	0.076
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Fonofos	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Ethoprop	0.0048 U	ug/L	0.0048	0.019
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Demeton	0.023 U	ug/L	0.023	0.092
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Chlorpyrifos Ethyl	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Prometon	0.019 U	ug/L	0.019	0.076
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Diazinon	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Bromacil	0.038 U	ug/L	0.038	0.15

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Sucralose	0.010 UY	ug/L	0.01	0.04
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Prometryn	0.019 U	ug/L	0.019	0.076
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Phorate	0.0048 U	ug/L	0.0048	0.019
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Mevinphos	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Malathion	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Ametryn	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Alachlor	0.057 U	ug/L	0.057	0.23
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Naled	0.038 U	ug/L	0.038	0.15
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Atrazine Desethyl	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Naproxen	0.0080 UJY	ug/L	0.008	0.032
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Simazine	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Parathion Methyl	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Metribuzin	0.019 U	ug/L	0.019	0.076
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Metolachlor	0.057 U	ug/L	0.057	0.23
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Chlorpyrifos Methyl	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Atrazine Desisopropyl	0.0096 U	ug/L	0.0096	0.038
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Norflurazon	0.029 UJ	ug/L	0.029	0.11
6/13/2018 11:08	EFF- 2 Grab	Pesticides	Metalaxyl	0.038 U	ug/L	0.038	0.15
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	4-Nitrophenol	10 UY	ug/L	10	40
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 UY	ug/L	10	40
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2-Chlorophenol	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Hexachloroethane	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Fluorene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 UY	ug/L	2	8
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Anthracene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Acenaphthylene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Acenaphthene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 UY	ug/L	10	40
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Nitrobenzene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 UY	ug/L	2	8

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Benzidine	10 UYJ	ug/L	10	40
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 UY	ug/L	2	8
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Dimethyl phthalate	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Chrysene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Fluoranthene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Phenanthrene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Diethyl phthalate	2.3 IYJ	ug/L	2	8
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2-Nitrophenol	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Pyrene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Naphthalene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 UY	ug/L	1	4
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 UY	ug/L	3	12
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Pentachlorophenol	0.50 UY	ug/L	0.5	2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 UY	ug/L	0.1	0.4
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Hexachlorobenzene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.025 UY	ug/L	0.025	0.1
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	1,4-Dioxane	0.020 UY	ug/L	0.02	0.08

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Phenol	0.050 UY	ug/L	0.05	0.2
6/13/2018 11:08	EFF- 2 Grab	Priority Organic Pollutants	Isophorone	0.050 UY	ug/L	0.05	0.2
6/11/2018 10:30	FFF2	Toxicology	Bioassay-Chron-Def-SW-Fish, NOEC	100	NOEC		
6/11/2018 10:30	FFF2	Toxicology	Bioassay-Chron-Def-SW-Mysid, NOEC	100	NOEC		
6/11/2018 10:30	FFF2	Toxicology	Bioassay-Chron-Def-SW-Mysid, IC25	100 L	IC25		
6/11/2018 10:30	FFF2	Toxicology	Bioassay-Chron-Def-SW-Fish, IC25	100 L	IC25		
6/11/2018 10:30	FFF2	Metals	Nickel	0.64 I	ug/L	0.6	2.4
6/11/2018 10:30	FFF2	Metals	Sodium	7.82E+03	mg/L	25	100
6/11/2018 10:30	FFF2	Metals	Silver	0.030 U	ug/L	0.03	0.12
6/11/2018 10:30	FFF2	Metals	Lead	0.50 U	ug/L	0.5	2
6/11/2018 10:30	FFF2	Metals	Cadmium	0.060 U	ug/L	0.06	0.24
6/11/2018 10:30	FFF2	Metals	Zinc	50 U	ug/L	50	200
6/11/2018 10:30	FFF2	Metals	Calcium	308	mg/L	0.75	3
6/11/2018 10:30	FFF2	Metals	Copper	0.83 I	ug/L	0.6	2.4
6/11/2018 10:30	FFF2	Metals	Chromium	0.47 I	ug/L	0.4	1.6
6/11/2018 10:30	FFF2	Metals	Selenium	0.60 U	ug/L	0.6	2.4
6/11/2018 10:30	FFF2	Metals	Arsenic	3.17	ug/L	0.15	0.6
6/11/2018 10:30	FFF2	Metals	Aluminum	600 U	ug/L	600	2400
6/11/2018 10:30	FFF2	Metals	Iron	300 U	ug/L	300	1200
6/11/2018 10:30	FFF2	Metals	Magnesium	968	mg/L	0.4	1.6
6/11/2018 10:30	FFF2	Metals	Potassium	285	mg/L	15	60
6/11/2018 10:30	FFF2	Overflow	Radium 228	0.752 V	pCi/L	0.479	
6/11/2018 10:30	FFF2	Overflow	Radium 228-Counting Error	0.34	pCi/L	0.479	
6/11/2018 10:30	FFF2	Overflow	Radium 226	0.324	pCi/L	0.258	
6/11/2018 10:30	FFF2	Overflow	Radium 226-Counting Error	0.207	pCi/L	0.258	
6/11/2018 12:25	Test Site	Overflow	Radium 226-Counting Error	0.191	pCi/L	0.288	
6/11/2018 12:25	Test Site	Overflow	Radium 226	0.288 U	pCi/L	0.288	
6/11/2018 12:25	Test Site	Overflow	Radium 228-Counting Error	0.345	pCi/L	0.518	
6/11/2018 12:25	Test Site	Overflow	Radium 228	0.590 V	pCi/L	0.518	
6/11/2018 12:25	Test Site	Nutrients	Dissolved Oxygen	6.22	mg/L		
6/11/2018 12:25	Test Site	Nutrients	pH	7.76	SU		
6/11/2018 12:25	Test Site	Nutrients	Specific Conductance	30612	umhos/cm		
6/11/2018 12:25	Test Site	Nutrients	Sample Depth	0.3	m		
6/11/2018 12:25	Test Site	Nutrients	Temperature	28.1	C		
6/11/2018 12:25	Test Site	AGP/LN	Algal Growth Potential - Saltwater	3.00 U	mg DryWt/L	3	3

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size 0.25-0.50 mm, Medium Sand	31.8 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	ParticleSize0.0039-0.0078mm,VeryFineSilt	3.80 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size >2.0 mm, ASTM Sieve #10	1.00 K	%totdrywt	0	1
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size <0.0039 mm, Clay	3.11 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size 0.125-0.25 mm, Fine Sand	28.0 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	3.1	ug/L	0.55	1.7
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size 0.50-1.0 mm, Coarse Sand	11.0 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Biochemical O_2 Demand-5 Day,N-Inhib	2.5 JV	mg/L	0.2	2
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size 0.031-0.0625mm,CoarseSilt	3.75 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size 0.0156-0.031mm,MediumSilt	3.94 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size 1.0-2.0mm,Very Coarse Sand	0.950 AJ	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.6 A	% dry wt		
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	3.3	ug/L	0.4	1.2
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Particle Size 0.0078-0.0156 mm,FineSilt	4.80 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	ParticleSize 0.0625-0.125mm,VeryFineSand	8.86 A	% vol <2mm	0	0.01
6/11/2018 12:25	Test Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40 U	ug/L	0.4	1.2
6/11/2018 12:25	Test Site	Overflow	Enterococci-Membrane Filter	22 B	cfu/100 mL	2	2
6/11/2018 12:25	Test Site	Overflow	Fecal Coliforms-Membrane Filter	42	cfu/100 mL	1	1
6/11/2018 12:25	Test Site	Metals	Cadmium	0.025 I	mg/Kg	0.0099	0.04
6/11/2018 12:25	Test Site	Metals	Nickel	0.60 U	ug/L	0.6	2.4
6/11/2018 12:25	Test Site	Metals	Sodium	5.99E+03	mg/L	25	100
6/11/2018 12:25	Test Site	Metals	Nickel	1.3 I	mg/Kg	0.37	1.5
6/11/2018 12:25	Test Site	Metals	Aluminum	180 U	ug/L	180	720
6/11/2018 12:25	Test Site	Metals	Magnesium	760	mg/L	2	8
6/11/2018 12:25	Test Site	Metals	Silver	0.0072 I	mg/Kg	0.0037	0.015
6/11/2018 12:25	Test Site	Metals	Silver	0.030 U	ug/L	0.03	0.12
6/11/2018 12:25	Test Site	Metals	Chromium	6.45	mg/Kg	0.25	0.99
6/11/2018 12:25	Test Site	Metals	Chromium	1.2 U	ug/L	1.2	4.8
6/11/2018 12:25	Test Site	Metals	Zinc	3.0 U	ug/L	3	12
6/11/2018 12:25	Test Site	Metals	Mercury	1.2	ng/L	0.1	0.3
6/11/2018 12:25	Test Site	Metals	Calcium	229	mg/L	0.22	0.9
6/11/2018 12:25	Test Site	Metals	Arsenic	1.67	ug/L	0.15	0.6
6/11/2018 12:25	Test Site	Metals	Cadmium	0.060 U	ug/L	0.06	0.24
6/11/2018 12:25	Test Site	Metals	Zinc	7.6 I	mg/Kg	4.9	20
6/11/2018 12:25	Test Site	Metals	Copper	2.19	mg/Kg	0.037	0.15

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/11/2018 12:25	Test Site	Metals	Lead	2.23	mg/Kg	0.099	0.4
6/11/2018 12:25	Test Site	Metals	Copper	0.60 U	ug/L	0.6	2.4
6/11/2018 12:25	Test Site	Metals	Arsenic	1.83	mg/Kg	0.0099	0.04
6/11/2018 12:25	Test Site	Metals	Lead	0.15 U	ug/L	0.15	0.6
6/11/2018 12:25	Test Site	Metals	Iron	170 I	ug/L	90	360
6/11/2018 12:25	Test Site	Metals	Potassium	226	mg/L	15	60
6/11/2018 12:25	Test Site	Metals	Selenium	0.60 U	ug/L	0.6	2.4
6/11/2018 12:25	Test Site	Nutrients	Ammonia-N	0.013	mg N/L	0.002	0.005
6/11/2018 12:25	Test Site	Nutrients	Organic Carbon	7.5	mg C/L	1	2
6/11/2018 12:25	Test Site	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.004	0.01
6/11/2018 12:25	Test Site	Nutrients	Total Alkalinity	69	mg CaCO3/L	0.65	2.5
6/11/2018 12:25	Test Site	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
6/11/2018 12:25	Test Site	Nutrients	TSS	3 U	mg/L	3	10
6/11/2018 12:25	Test Site	Nutrients	Sulfate	1.50E+03	mg SO4/L	40	100
6/11/2018 12:25	Test Site	Nutrients	Kjeldahl Nitrogen	0.44	mg N/L	0.16	0.4
6/11/2018 12:25	Test Site	Nutrients	Total-P	0.014	mg P/L	0.004	0.01
6/11/2018 12:25	Test Site	Nutrients	Fluoride	0.76	mg F/L	0.18	0.5
6/11/2018 12:25	Test Site	Nutrients	Chloride	1.00E+04	mg Cl/L	40	100
6/11/2018 12:25	Test Site	Nutrients	Turbidity	2.2	NTU	0.1	0.13
6/11/2018 12:25	Test Site	Nutrients	Color (true)	45 A	PCU	2.5	6
6/11/2018 12:25	Test Site	Pesticides	Sucralose	0.010 U	ug/L	0.01	0.04
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	ug/L	10	41
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2-Nitrophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Anthracene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Isophorone	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Nitrobenzene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Pentachlorophenol	0.51 U	ug/L	0.51	2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2-Chlorophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Acenaphthene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Benzidine	10 U	ug/L	10	41
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	ug/L	1	4.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Dimethyl phthalate	0.051 U	ug/L	0.051	0.2

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	ug/L	10	41
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 U	ug/L	2	8.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Phenol	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Pyrene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	1,4-Dioxane	0.020 U	ug/L	0.02	0.08
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	ug/L	2	8.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Fluorene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Naphthalene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Phenanthrene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Chrysene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Diethyl phthalate	2.0 U	ug/L	2	8.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	8.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	ug/L	0.1	0.41
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	4-Nitrophenol	10 U	ug/L	10	41
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Acenaphthylene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	ug/L	3.1	12

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/11/2018 12:25	Test Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Fluoranthene	0.026 U	ug/L	0.026	0.1
6/11/2018 12:25	Test Site	Priority Organic Pollutants	Hexachloroethane	0.051 U	ug/L	0.051	0.2
6/11/2018 12:25	Test Site	Nutrients	Specific Conductance	30612	umhos/cm		
6/11/2018 12:25	Test Site	Nutrients	Sample Depth	0.3	m		
6/11/2018 12:25	Test Site	Nutrients	pH	7.76	SU		
6/11/2018 12:25	Test Site	Nutrients	Dissolved Oxygen	6.22	%Sat		
6/11/2018 12:25	Test Site	Nutrients	Temperature	28.1	C		
6/11/2018 12:25	Test Site	Nutrients	% Solid	74.7	%	0.1	0.1
6/11/2018 11:30	Control Site	Overflow	Radium 226-Counting Error	0.216	pCi/L	0.263	
6/11/2018 11:30	Control Site	Overflow	Radium 228	0.755 V	pCi/L	0.493	
6/11/2018 11:30	Control Site	Overflow	Radium 228-Counting Error	0.344	pCi/L	0.493	
6/11/2018 11:30	Control Site	Overflow	Radium 226	0.364	pCi/L	0.263	
6/11/2018 11:30	Control Site	Nutrients	Specific Conductance	25433	umhos/cm		
6/11/2018 11:30	Control Site	Nutrients	Sample Depth	0.3	m		
6/11/2018 11:30	Control Site	Nutrients	pH	7.03	SU		
6/11/2018 11:30	Control Site	Nutrients	Temperature	27.64	C		
6/11/2018 11:30	Control Site	AGP/LN	Algal Growth Potential - Saltwater	3.7	mg DryWt/L	3	3
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	ParticleSize 0.0625-0.125mm,VeryFineSand	6.06	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size 0.125-0.25 mm, Fine Sand	30.3	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size 1.0-2.0mm,Very Coarse Sand	2.92	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Biochemical O_2 Demand-5 Day,N-Inhib	0.98 IVJ	mg/L	0.2	2
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size 0.0156-0.031mm,MediumSilt	1.83	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	3.1	ug/L	0.55	1.7
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	3.2	ug/L	0.4	1.2
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size <0.0039 mm, Clay	1.93	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	ParticleSize0.0039-0.0078mm,VeryFineSilt	2.06	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size >2.0 mm, ASTM Sieve #10	1.00 K	%totdrywt	0	1
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.3	% dry wt		
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size 0.031-0.0625mm,CoarseSilt	1.46	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size 0.25-0.50 mm, Medium Sand	39.1	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size 0.0078-0.0156 mm,FineSilt	2.3	% vol <2mm	0	0.01
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Particle Size 0.50-1.0 mm, Coarse Sand	12	% vol <2mm	0	0.01

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/11/2018 11:30	Control Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40 U	ug/L	0.4	1.2
6/11/2018 11:30	Control Site	Overflow	Enterococci-Membrane Filter	25 B	cfu/100 mL	2	2
6/11/2018 11:30	Control Site	Overflow	Fecal Coliforms-Membrane Filter	2	cfu/100 mL	1	1
6/11/2018 11:30	Control Site	Metals	Cadmium	0.015 I	mg/Kg	0.0093	0.037
6/11/2018 11:30	Control Site	Metals	Arsenic	1.37	ug/L	0.15	0.6
6/11/2018 11:30	Control Site	Metals	Selenium	0.60 U	ug/L	0.6	2.4
6/11/2018 11:30	Control Site	Metals	Chromium	1.2 U	ug/L	1.2	4.8
6/11/2018 11:30	Control Site	Metals	Calcium	191	mg/L	0.22	0.9
6/11/2018 11:30	Control Site	Metals	Copper	0.60 U	ug/L	0.6	2.4
6/11/2018 11:30	Control Site	Metals	Arsenic	0.478	mg/Kg	0.0093	0.037
6/11/2018 11:30	Control Site	Metals	Chromium	2.77	mg/Kg	0.23	0.93
6/11/2018 11:30	Control Site	Metals	Iron	90 U	ug/L	90	360
6/11/2018 11:30	Control Site	Metals	Potassium	176	mg/L	6	24
6/11/2018 11:30	Control Site	Metals	Sodium	4.98E+03	mg/L	25	100
6/11/2018 11:30	Control Site	Metals	Nickel	0.60 U	ug/L	0.6	2.4
6/11/2018 11:30	Control Site	Metals	Lead	1.17	mg/Kg	0.093	0.37
6/11/2018 11:30	Control Site	Metals	Silver	0.0047 I	mg/Kg	0.0035	0.014
6/11/2018 11:30	Control Site	Metals	Mercury	1.2	ng/L	0.1	0.3
6/11/2018 11:30	Control Site	Metals	Magnesium	596	mg/L	0.8	3.2
6/11/2018 11:30	Control Site	Metals	Lead	0.15 U	ug/L	0.15	0.6
6/11/2018 11:30	Control Site	Metals	Copper	0.56	mg/Kg	0.035	0.14
6/11/2018 11:30	Control Site	Metals	Zinc	4.7 U	mg/Kg	4.7	19
6/11/2018 11:30	Control Site	Metals	Cadmium	0.060 U	ug/L	0.06	0.24
6/11/2018 11:30	Control Site	Metals	Zinc	3.0 U	ug/L	3	12
6/11/2018 11:30	Control Site	Metals	Nickel	0.65 I	mg/Kg	0.35	1.4
6/11/2018 11:30	Control Site	Metals	Aluminum	180 U	ug/L	180	720
6/11/2018 11:30	Control Site	Metals	Silver	0.030 U	ug/L	0.03	0.12
6/11/2018 11:30	Control Site	Nutrients	TSS	3 I	mg/L	3	10
6/11/2018 11:30	Control Site	Nutrients	Ammonia-N	0.01	mg N/L	0.002	0.005
6/11/2018 11:30	Control Site	Nutrients	Organic Carbon	7.2	mg C/L	1	2
6/11/2018 11:30	Control Site	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.004	0.01
6/11/2018 11:30	Control Site	Nutrients	Chloride	8.60E+03	mg Cl/L	20	50
6/11/2018 11:30	Control Site	Nutrients	Total-P	0.011	mg P/L	0.004	0.01
6/11/2018 11:30	Control Site	Nutrients	Color (true)	45	PCU	2.5	6
6/11/2018 11:30	Control Site	Nutrients	Fluoride	0.64	mg F/L	0.18	0.5

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/11/2018 11:30	Control Site	Nutrients	Sulfate	1.20E+03	mg SO4/L	20	50
6/11/2018 11:30	Control Site	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
6/11/2018 11:30	Control Site	Nutrients	Kjeldahl Nitrogen	0.48	mg N/L	0.16	0.4
6/11/2018 11:30	Control Site	Nutrients	Total Alkalinity	62	mg CaCO3/L	0.65	2.5
6/11/2018 11:30	Control Site	Nutrients	Turbidity	1	NTU	0.1	0.13
6/11/2018 11:30	Control Site	Pesticides	Sucralose	0.010 U	ug/L	0.01	0.04
6/11/2018 11:30	Control Site	Priority Organic Pollutants	4-Nitrophenol	10 U	ug/L	10	41
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Chrysene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Isophorone	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	ug/L	10	41
6/11/2018 11:30	Control Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Benzidine	10 U	ug/L	10	41
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	ug/L	1	4.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	1,4-Dioxane	0.020 U	ug/L	0.02	0.08
6/11/2018 11:30	Control Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Fluorene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Hexachloroethane	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Phenol	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Diethyl phthalate	2.0 U	ug/L	2	8.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Dimethyl phthalate	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Naphthalene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Acenaphthene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Acenaphthylene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	ug/L	2	8.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	ug/L	0.051	0.2

Date_Sampled	Sample_ID	SCH_Group	Component	Result	Units	MDL	PQL
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Pentachlorophenol	0.51 U	ug/L	0.51	2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 U	ug/L	2	8.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Fluoranthene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Pyrene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	ug/L	10	41
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2-Chlorophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	8.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	ug/L	0.1	0.41
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Phenanthrene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	ug/L	3.1	12
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2-Nitrophenol	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Anthracene	0.026 U	ug/L	0.026	0.1
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	Nitrobenzene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
6/11/2018 11:30	Control Site	Nutrients	Specific Conductance	25433	umhos/cm		
6/11/2018 11:30	Control Site	Nutrients	pH	7.03	SU		
6/11/2018 11:30	Control Site	Nutrients	% Solid	7.10E+01	%	0.1	0.1
6/11/2018 11:30	Control Site	Nutrients	Specific Conductance	25433	umhos/cm		
6/11/2018 11:30	Control Site	Nutrients	Temperature	27.64	C		
6/11/2018 11:30	Control Site	Nutrients	Temperature	27.64	C		
6/11/2018 11:30	Control Site	Nutrients	pH	7.03	SU		
6/11/2018 11:30	Control Site	Nutrients	Sample Depth	0.3	m		
6/11/2018 11:30	Control Site	Nutrients	Sample Depth	0.3	m		