Biological Assessment of

Navarre Beach Wastewater Treatment Plant

Santa Rosa County

NPDES # FL0023981

Sampled March 20, 2017

September 2017

Biology Program

DEP Laboratory

Division of Environmental Assessment and Restoration

DEP Laboratory Quality Manual

NELAC Certification No. E31780

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EPA End Sheet

The purpose of this investigation was to determine the discharge's effects on the biota of the receiving waters. 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. All references to 62-302.530, F.A.C. are to the final surface water quality criteria table with an effective date of 08/01/2013 and a notice identification number of 13249441.

Facility Overview

The Navarre Beach Wastewater Treatment Plant is a Municipal Domestic Wastewater Treatment Facility. The effluent is discharged into Santa Rosa Sound, Class III Marine Waters and an Outstanding Florida Water (see map Appendix A). The permitted design flow of the wastewater system is 0.900 million gallons per day (MGD). The annual average daily flow for April 2016 through March 2017 was 0.298 MGD for all external outfalls. The plant discharges continuously, and the flow measured during this survey was 0.347 MGD (Northwest District sampling staff).

See the Facility Summary (Appendix B) for a description of the facility, summary of permit limits, and Discharge Monitoring Report (DMR) information.

Methods

Chemical and biological comparisons were made approximately 50 m southeast (Test Site 1) and 50 m northwest (Test Site 2) of Outfall D-001 and at a Control Site 690 m northeast of D-001. These three locations are historical sampling sites for this facility. Sites were sampled on an incoming tide. The effluent was collected as both 24-hour flow composite and grab samples from monitoring location EFF-01, after dechlorination.

All field and laboratory methods followed DEP Standard Operating Procedures (see http://www.dep.state.fl.us/labs/library/lab_sops.htm and http://www.dep.state.fl.us/water/sas/sop/sops.htm for details) and met DEP quality assurance/quality control standards (see http://www.dep.state.fl.us/water/sas/qa/index.htm). Explanations of specific methods and measurements can be found in Appendix C.

The following were involved in this investigation: Nathan Mulkey and Mike King (DEP Northwest ROC), Dana Vestal (DEP Northwest District Office, Pensacola), and DEP Laboratory in Tallahassee. The report was reviewed by District representatives and the Point Source Studies Review Committee (Mike Tanski, Andrew Tintle, and Adrienne Pennington).

Results

Physical and Chemical Parameters (See Table 1 and Appendices D, E, and F)

- The pH and dissolved oxygen of the effluent, Test Sites, and Control Site complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.) and effluent permit limits.
- The amount of effluent total residual chlorine measured after dechlorination complied with effluent permit limits.

Analytical Water Chemistry (See Table 2 and Appendix F)

- Chlorophyll *a* was undetected in the effluent grab sample and was detected at similar levels in both Test Site samples and the Control Site sample.
- Total suspended solids and carbonaceous biochemical oxygen demand of the composite effluent sample complied with permit limits.
- Turbidity and fluoride levels in the Test Site 1, Test Site 2, and Control Site samples complied with the Class III Marine Water Quality Criteria (62-302.530, F.A.C.).

Nutrients (See Table 2 and Appendix F)

- Receiving waters for this facility fall under the Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria for Santa Rosa Sound within the Pensacola Bay region (62-302.532, F.A.C.). The NNC thresholds, expressed as annual geometric means, are 0.022 mg/L total phosphorus, 0.41 mg/L total nitrogen, and 3.4 µg/L chlorophyll *a*. This FYI event can only provide single sample results, therefore, compliance should be determined with additional sampling events.

- The samples from Test Sites 1 and 2 measured below this threshold for total phosphorus, total nitrogen, and chlorophyll *a*. The results from the Control Site sample are below this threshold for total nitrogen and chlorophyll a and are above the threshold for total phosphorus.
- The nutrient levels of the effluent sample complied with permit limits. There was no detectable nutrient enrichment from the effluent at either Test Site despite elevated levels of nitrogen and phosphorus measured in the effluent.

Microbiology (See Table 2 and Appendix F)

- Enterococci were undetected in the effluent, Test Site 1, Test Site 2, and Control Site samples.
- Fecal coliforms were undetected in the effluent, Test Site 1, and Control Site samples. Test Site 2 fecal coliforms were detected at levels that complied with effluent permit limits and the Class III Marine Water Quality Criterion (62-302.530(6), F.A.C.).

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

- Tests were performed March 21 through March 28, 2017.
- The effluent sample IC25 for the mysid, *Americamysis bahia,* and the fish, *Menidia beryllina*, during the chronic definitive bioassays complied with effluent permit limits.
- For more information or to obtain copies of the toxicity bench sheets, please contact the Biology Laboratory at 850-245-8177.

Organic Constituents (See Table 3 and Appendix F)

- Imidacloprid and primidone were detected in the effluent sample.
- No organic constituents were detected in the field blank.

Metals (See Table 4 and Appendix F)

- All metals detected in the effluent, Test Site 1, Test Site 2, and Control Site samples were present at levels that complied with effluent permit limits and Class III Marine Water Quality Criteria (62-302.530, F.A.C.).
- Copper and lead were detected in the field blank. There was a known contamination for copper, lead, and nickel with the Northwest District, Pensacola deionized water lines that has since been resolved.

Algal Growth Potential (See Table 5 and Appendix F)

- Analytical chemistry results suggest that the effluent is nitrogen limited.
- The AGP values of Test Site 1, Test Site 2, and Control Site samples were below the detection limit for the saltwater species *Dunaliella tertiolecta*. Analytical chemistry results suggest that the Control Site is co-limited for nitrogen and phosphorus. Kjeldahl nitrogen was undetected in both Test Site samples; therefore, ratios could not be calculated.
- The effluent appears to be sufficiently diluted such that nutrient enrichment of the receiving water is not detected as demonstrated by the Test Site samples.

Bioassessment

Macroinvertebrates (See Table 6)

- The Shannon-Weaver Diversity scores were similar at Test Site 1, Test Site 2, and the Control Site. The diversity scores for all sites may be negatively biased due to calculation based on fewer than 300 individuals (Lande 1996).
- All three sites had the same dominant taxon and a similar composition of taxa. Test Site 1 had a higher number of taxa present than Test Site 2 and the Control Site, which were similar. Test Site 1 and the Control Site had a higher density of macroinvertebrates present than Test Site 2.
- Overall, there were no negative effects on macroinvertebrates at either of the Test Sites that were attributable to the effluent.
- For more information or to obtain a copy of the taxa lists, please contact the Biology Laboratory at 850-245-8177.

Sediments (See Table 7, Figure 1, and Appendix F)

- The Test Site 1, Test Site 2, and Control Site sediment samples were composed of sand with a similar particle size distribution at all three sites. Samples were composed primarily of sediment particles 0.25-1.0 mm and sediment percent organic content was less than 1% for all samples.
- Sediment metals detected at all sites were below the Threshold Effects Level (TEL) for sediment metals (MacDonald, 1994).

Conclusion

Nutrient and AGP values indicate no detectable nutrient enrichment in the receiving water due to the effluent, and there is no evidence of an impact on the macroinvertebrate community.

Literature Cited

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Stevenson, R. J. and L. L. Bahls. 1999. Periphyton protocols. Pp. 6.1-6.22 in: Rapid bioassessment protocols for use in wadeable streams and rivers. 2nd edition. By: M. T. Barbour, J. Gerritsen, B. D. Snyder and J. B. Stribling. EPA 841-B-99-002. U. S. Environmental Protection Agency, Office of Water, Washington, D. C.

Table 1. Effluent limits, Class III Marine Criteria, and field parameters

Navarre Beach WWTF	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab	Test Site 1	Test Site 2	Control Site
Sample Depth	m	-	-	-	0.2	0.2	0.2
Temperature	C	-	-	22.8	17.9	18.0	18.0
pH	SU	6.5 - 8.5	6.5-8.5	6.7	7.8	7.7	7.4
Specific Conductance	umhos/cm	-	-	-	28,291	28,364	28,685
Salinity	ppt	-	-	0 c	20 c	20 c	20 c
Dissolved Oxygen	% saturation	≥ 42	-	92.2 c	102.3 c	102.4 c	100.0 c
Dissolved Oxygen	mg/L	-	≥ 4.0	7.9	8.6	8.6	8.4
Flow (through WWTP)	MGD	-	≤ 0.900 a	0.347	-	-	-
Flow (Industrial Reuse)	MGD	-	≤ 0.032 a	-	-	-	-
Total Residual Chlorine	mg/L	≤ 0.01	≤ 0.01	0.01	-	-	-

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

Table 2. Effluent limits, Class III Marine Criteria, analytical water chemistry, microbiological, and toxicological data

Navarre Beach WWTF	Units	Class III Criteria	Effluent Permit Limits	Effluent Composite (p^2)	Effluent Grab	Test Site 1	Test Site 2	Control Site
Ortho-phosphate	mg P/L	-	-	-	0.72	0.004 U	0.004 U	0.004 U
Total Phosphorus	mg P/L	-	≤ 10 p^1	0.78	0.8	0.008 I	0.008 I	0.025
Total Ammonia	mg N/L	-	-	0.03	0.028	0.002 U	0.002 U	0.002 U
Un-ionized Ammonia (calculated salinity)	mg N/L	-	-	-	< 0.02 c	< 0.02 c	< 0.02 c	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	0.42	0.38	0.006 I	0.006 I	0.005 I
Total Kjeldahl Nitrogen	mg N/L	-	-	0.51	0.52	0.16 U	0.16 U	0.27 I
Organic Nitrogen	mg N/L	-	-	0.48 c	0.49 c	0.08 c	0.08 c	0.27 c
Total Nitrogen	mg N/L	-	≤ 18 p^1	0.93 c	0.9 c	0.09 c	0.09 c	0.28 c
Total Organic Carbon	mg C/L	-	-	3.8	3.9	3.0	3.1	3.3
Chlorophyll *a* - Corrected	ug/L	-	-	-	0.55 U	0.74 I	0.80 I	0.63 I
Phaeophytin	ug/L	-	-	-	0.40 U	0.45 U	0.40 U	0.40 U
CBOD, 5 day, N - inhibited	mg/L	-	≤ 10 p^1	2.1	-	0.68 I	0.84 I	0.67 I
Hardness	mg/L	-	-	56 c	-	3140 c	3180 c	3260 c
Total Suspended Solids	mg/L	-	≤ 10 p^1	3 I	-	3 U	4 I	4 I
Turbidity	NTU	< 29 t	-	-	0.75	0.6	0.65	0.75
Color (true)	PCU	-	-	-	9.0	2.5 U	2.5 U	2.5 U
Chloride	mg Cl/L	-	-	-	70	9900	10000	10000
Fluoride	mg F/L	≤ 5.0	-	-	0.054 I	0.59	0.59	0.6
Sulfate	mg SO4/L	-	-	-	60	1400	1400	1400
Microbiology								
Fecal Coliforms[4]	cfu/100 mL	≤400[#]	≤ 86 s	-	2 U	2 U	2 B	2 U
Enterococci[5]	cfu/100 mL	-	≤ 104 s	-	2 U	2 U	2 U	2 U
Toxicity (Chronic Definitive, IC25, % effluent)								
Bioassay - Mysid *(Americamysis bahia)*	% effluent	-	≥ 100 p^2	> 100	-	-	-	-
Bioassay - Fish (*Menidia beryllina)*	% effluent	-	≥ 100 p^2	> 100	-	-	-	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
#- If 10 or fewer samples are taken within a month, the single sample limit is 400 CFU/100 mL (62-302.530(6), F.A.C.)
c - Value is calculated
p^1 – 16-hour flow proportioned composite

p^2 – 24-hour flow proportioned composite
s - Single sample
t - Shall not exceed 29 NTUs above background
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
T - Value reported is less than the criterion of detection
U - Material analyzed for but not detected; value reported is the method detection limit
4 - Fecal coliform analysis by membrane filter method performed by UWF Overflow Laboratory for NWD (E71969)
5 - Enterococci analysis by membrane filter method performed by UWF Overflow Laboratory for NWD (E71969)

Table 3. Analytical organic and pesticide data

Navarre Beach WWTP	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Imidacloprid	ug/L	-	-	0.047
Primidone	ug/L	-	-	0.22

Table 4. Effluent limits, Class III Marine Criteria, and analytical metals data

Navarre Beach WWTF	Units	Class III Criteria	Effluent Permit Limits	Effluent Composite (p^2)	Test Site 1	Test Site 2	Control Site	Blank
Aluminum	ug/L	≤ 1500	-	3.0 U	41	45	50	3.0 U
Arsenic	ug/L	≤ 50	-	0.58	1.15	1.3	1.04	0.050 U
Cadmium	ug/L	≤ 8.8	-	0.020 U	0.060 U	0.060 U	0.060 U	0.020 U
Calcium	mg/L	-	-	16.2	190	192	198	0.075 U
Chromium, Total [3]	ug/L	≤ 50	-	0.40 U	1.2 U	1.2 U	1.2 U	0.40 U
Copper	ug/L	≤ 3.7	≤ 3.7 p^1	1.06	0.60 U	0.60 U	0.60 U	0.31 I
Iron	ug/L	≤ 300	-	63 I	30 U	30 U	30 U	30 U
Lead	ug/L	≤ 8.5	-	0.050 U	0.15 U	0.15 U	0.15 U	0.21
Magnesium	mg/L	-	-	3.77	648	657	672	0.040 U
Nickel	ug/L	≤ 8.3	-	1.54	0.60 U	0.60 U	0.60 U	0.20 U
Potassium	mg/L	-	-	10	188	192	196	0.30 U
Selenium	ug/L	≤ 71	-	0.20 U	0.60 U	0.60 U	0.60 U	0.20 U
Silver	ug/L	≤ 2.3	-	0.010 U	0.030 U	0.030 U	0.030 U	0.010 U
Sodium	mg/L	-	-	79.2	5170	5290	5390	0.50 U
Zinc	ug/L	≤ 86	-	30.5	3.5 I	3.4 I	11 I	5.0 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
3 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI
p^1 – 16-hour flow proportioned composite
p^2 – 24-hour flow proportioned composite
s - Single sample
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

Table 5. Measured and predicted algal growth potential

Navarre Beach WWTP								
Location	**Test Species**	**AGP (measured)**	**Predicted AGP (TSIN) ± 20%**	**Predicted AGP (OP) ± 20%**	**Predicted AGP (TN) ± 20%**	**Predicted AGP (TP) ± 20%**	**Inorganic N:P ratio**	**Total N:P ratio**
Effluent Grab	*Pseudokirchneriella subcapitata*	22.2	15.5 ± 3.1	309.6 ± 61.9	34.2 ± 6.8	344 ± 68.8	0.6	1.1
Effluent Grab	*Dunaliella tertiolecta*	17.0 *	N/A [2]	N/A [2]	N/A [2]	N/A [2]	0.6	1.1
Test Site 1	*Dunaliella tertiolecta*	3.0 U	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [1]	N/A [1]
Test Site 2	*Dunaliella tertiolecta*	3.0 U	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [1]	N/A [1]
Control Site	*Dunaliella tertiolecta*	3.0 U	N/A [2]	N/A [2]	N/A [2]	N/A [2]	N/A [1]	11

(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

* - sample salinity adjusted to 7.1 ppt
1 - non-detect in the analytical chemistry; predictions could not be made and N:P ratios could not be calculated.
2 - predictions not applicable to marine matrix
U - Material analyzed for but not detected; value reported is the method detection limit

Table 6. Macroinvertebrate ponar samples- quantitative

Navarre Beach WWTP	Test Site 1	Test Site 2	Control Site
Summary Statistics			
Shannon-Weaver Diversity	3.09	2.65	2.66
Number of Taxa	24	15	17
Percent Dominant Taxon	39.32	47.89	43.32
Dominant Taxon Name	*Acteocina* sp. (Gastropoda)	*Acteocina* sp. (Gastropoda)	*Acteocina* sp. (Gastropoda)
Number of samples/site	6	6	6
Total Number of Individuals (counted)	150 *	71 *	150 *
Total Number of Individuals (#/m^2)	1042	493	1042
Community Composition: Percent of total			
Amphipoda	2.7	2.8	4.7
Bivalvia	20.7	12.7	21.3
Branchiostoma	12.0	11.3	12.7
Diptera	0.0	1.4	0.0
Echinodermata	3.3	1.4	3.3
Gastropoda	43.3	49.3	44.7
Nemertea	1.3	0.0	2.0
Oligochaeta	0.0	7.0	0.0
Polychaeta	16.0	14.1	9.3
Other	0.7	0.0	2.0
Functional Feeding Groups: Percent of total			
Browser-Grazers	1.3	0.7	2.3
Burrowing Deposit Feeders	2.7	8.5	2.0
Parasite	1.3	0.0	0.0
Predators	8.7	3.5	5.3
Scavengers	1.3	0.7	2.3
Scrapers	2.0	2.1	1.3
Surface Deposit Feeders	5.7	6.3	6.7
Suspension Feeders	37.0	30.3	36.7

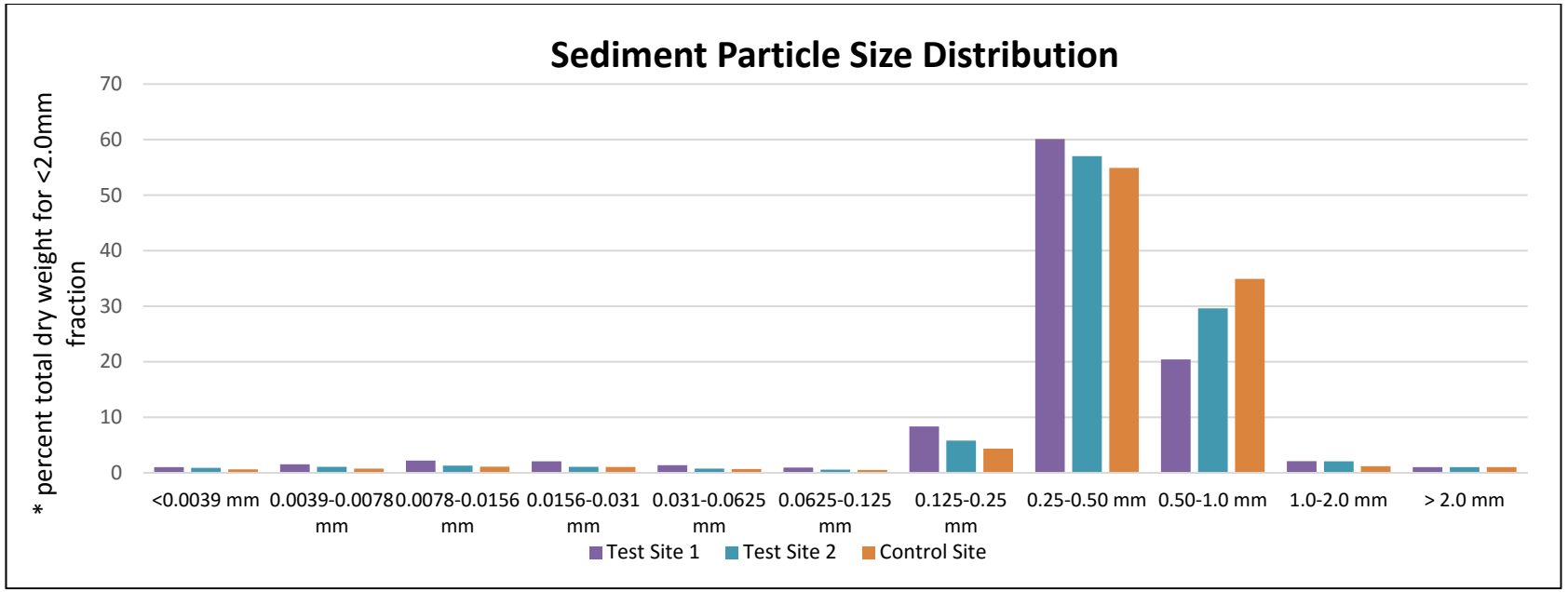
* - Shannon Weaver Diversity scores calculated on samples with < 300 individuals have the potential for negative bias (lower diversity scores compared to sites with more individuals) (Lande 1996).

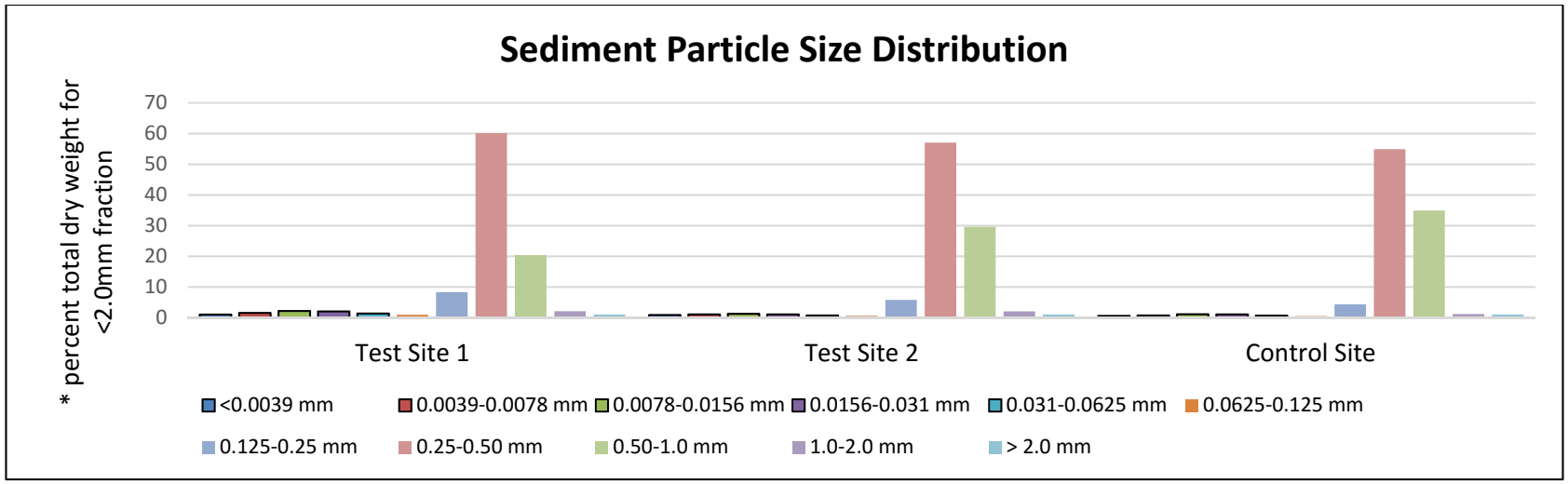
Table 7. Sediment data

Navarre Beach WWTP	Units	Sediment Quality Assessment Guidelines		Test Site 1	Test Site 2	Control Site
		TEL	PEL			
Particle Size Distribution						
<0.0039 mm		-	-	1.01	0.870 A	0.600
0.0039-0.0078 mm		-	-	1.53	1.06 A	0.740
0.0078-0.0156 mm		-	-	2.20	1.28 A	1.10
0.0156-0.031 mm		-	-	2.05	1.07 A	1.05
0.031-0.0625 mm		-	-	1.37	0.740 A	0.670
0.0625-0.125 mm		-	-	0.940	0.565 A	0.490
0.125-0.25 mm		-	-	8.32	5.78 A	4.34
0.25-0.50 mm		-	-	60.1	57.0 A	54.9
0.50-1.0 mm		-	-	20.4	29.6 A	34.9
1.0-2.0 mm		-	-	2.09	2.06 A	1.16
> 2.0 mm		-	-	1.0 K	1.0 K	1.0 K
Organic Content						
Organic Content	% dry wt	-	-	1.0 K	1.0 K	1.0 K
Metals						
Arsenic	mg/Kg	7.24	41.6	0.696	0.468	0.418
Cadmium	mg/Kg	0.676	4.21	0.0097 U	0.0094 U	0.0099 U
Chromium	mg/Kg	52.3	160	2.32	1.72	1.27
Copper	mg/Kg	18.7	108	0.83	0.65	0.43
Lead	mg/Kg	30.2	112	0.97	0.82	0.61
Nickel	mg/Kg	15.9	42.8	0.64 I	0.42 I	0.38 I
Silver	mg/Kg	0.733	1.77	0.0053 I	0.0035 U	0.0037 U
Zinc	mg/Kg	124	271	4.8 U	4.7 U	4.9 U
Organics						
Fluoranthene	ug/kg	113	1494	8.8 I	9.6 U	8.8 U
Pyrene	ug/kg	153	1398	8.8 I	9.6 U	8.8 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
Sediment Quality Assessment Guidelines (MacDonald 1994): TEL = Threshold Effects Level; PEL = Probable Effects Level
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
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 (mm)





Appendix A

Map of Facility

Appendix A
Navarre Beach WWTP
Fifth Year Bioassessment Sampling Locations



State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event

Prepared By: Dana Vestal	**Contact Number:** (850) 595-0659
Facility Name (as it appears on permit): Navarre Beach WWTP	**Former Names:** None
NPDES Permit Number: FL0023981	**Permit Expiration Date:** August 18, 2018
Physical Address: 1411 Utility Drive, Navarre, FL 32566-7153	
District: Northwest	**County:** Santa Rosa
Function of Facility: Domestic wastewater treatment facility	
Facility Type: Domestic Wastewater Treatment Facility	**Permitted Capacity (MGD):** 0.900 MGD AADF

Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): D-001 average using annual averages reported February 2016 through January 2017 is 0.299 MGD.

If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): FLW-02 - Facility has a small permitted Part VII Industrial Use Reclaimed Water in the permit limited to 0.032 MGD annual average. The FLW-02 average using annual averages reported February 2016 through January 2017 is 0.018 MGD.

Description of type of Discharge:
☒ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent**
☐ **Other, please specify:**

Description of Sampling Location(s) - actual permit designation of permitted sampling point(s) Permit Condition I.A.2. for D-001:

Monitoring Site Number	Description of Monitoring Site
FLW-01	90 degree V-notch weir with ultrasonic flow meter
FLW-02	Turbine flowmeter for reuse at WWTP
EFF-01	Discharge from the V-notch weir
EFA-01	Sampling immediately after disinfection

Description of Permitted Outfall(s): D-001 is approximately 400 feet in length and discharges at a depth of approximately 8.5 feet at approximate latitude 30° 22’ 51” N, longitude 86° 52’ 45” W to Santa Rosa Sound, Class III Marine waters (WBID# 915).

Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): The facility is a 0.90 MGD AADF oxidation ditch WWTP with two static screens, two 1,050 gallons grit chambers, a 91,600 gallons flow equalization basin, a 750,000 gallons 5-stage fine bubble diffused oxidation ditch that has anoxic, anaerobic and aerobic zones, two clarifiers 42 and 50-foot diameters, four 38 SF tertiary filters, two 9,375 gallons chlorine contact chambers for sodium hypochlorite disinfection, sodium dioxide injection for dichlorination, a 91,600 gallons sludge holding tank, a 1.5 meter belt filter press and three 1,440 SF sludge drying beds. The facility has a 0.90 MG emergency holding pond equipped with floating aerators. See the below WWTP

Site Plan and Process Flow Schematic.



Figure 1 – Navarre Beach WWTP Site Plan

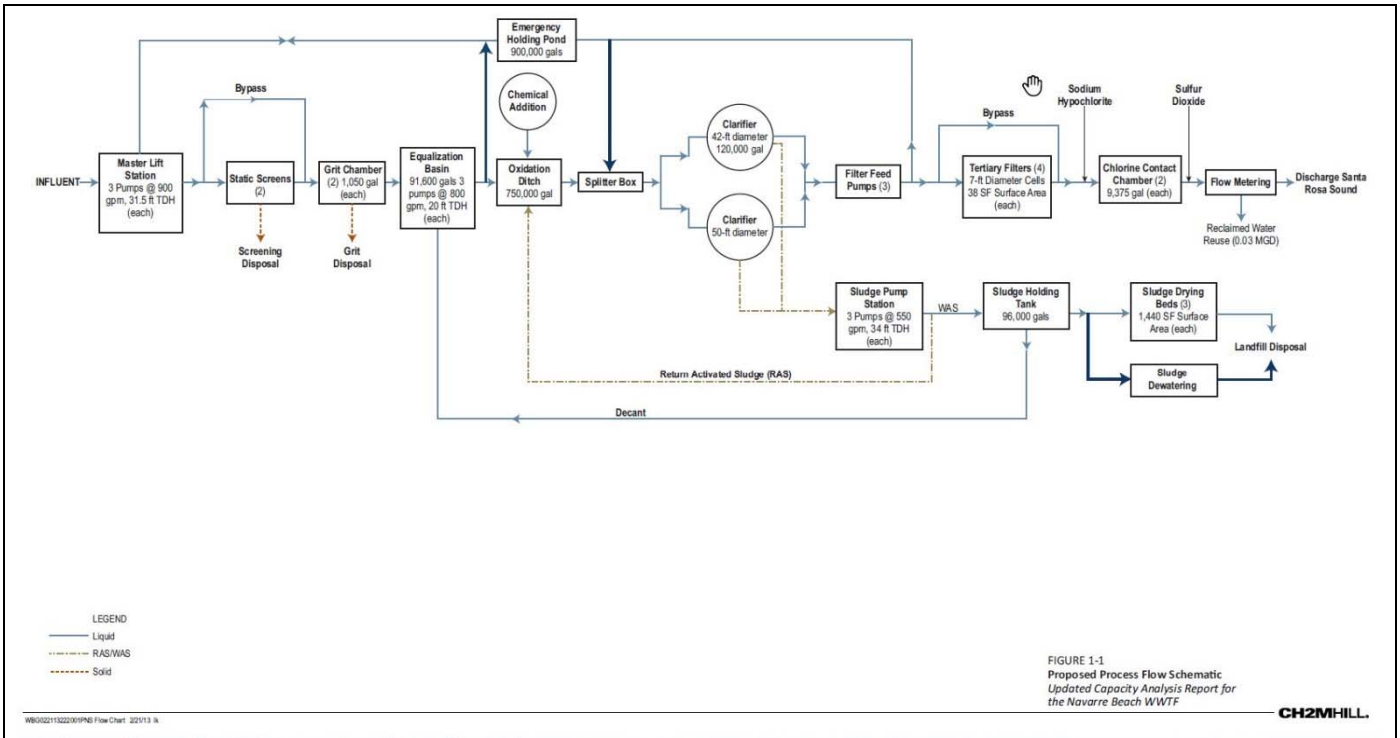


Figure 2 – Navarre Beach WWTP Process Flow Diagram

PART I: Continued

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

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (through WWTP)	MGD	Max Max Max	0.900 Report Report	Annual Average Monthly Average Quarterly Average	5 Days/Week	Recording Flow Meter with Totalizer	FLW-01	See I.A.3
Flow (Industrial Reuse)	MGD	Max Max	0.032 Report	Annual Average Monthly Average	5 Days/Week	Meter	FLW-02	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFF-01	
Solids, Total Suspended	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFF-01	
Nitrogen, Total	mg/L	Max Max Max Max	9.0 11.25 13.5 18.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFF-01	
Nitrogen, Total	lb./day	Max	67.5	Annual Average	Weekly	16-hr FPC	EFF-01	
Phosphorus, Total (as P)	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFF-01	
Phosphorus, Total (as P)	lb/day	Max	37.5	Annual Average	Weekly	16-hr FPC	EFF-01	
Coliform, Fecal	#/100mL	Max Max Max	14 14 86	Annual Average Monthly Median Single Sample	Weekly	Grab	EFF-01	See I.A.4
pH	s.u.	Min Max	6.5 8.5	Single Sample Single Sample	5 Days/Week	Grab	EFF-01	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	5 Days/Week	Grab	EFA-01	See I.A.5
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Weekly	16-hr FPC	EFF-01	
Oxygen, Dissolved (DO)	mg/L	Min	4.0	Single Sample	5 Days/Week	Grab	EFF-01	

PART I: Continued

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

Copper, Total Recoverable	ug/L	Max	3.7	Single Sample	Monthly	16-hr FPC	EFF-01	
Enterococci	#/100mL	Max Max	35 104	Mo. Geo. Mean Single Sample	5/Month	Grab	EFF-01	See I.A.6
Chronic Whole Effluent Toxicity, 7-Day IC25 (Mysidopsis bahia)	%	Min	100	Single Sample	Semi-Annually	24-hr FPC	EFF-01	See I.A.7
Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	%	Min	100	Single Sample	Semi-Annually	24-hr FPC	EFF-01	See I.A.7

PART I: Continued

Receiving Waters: Santa Rosa Sound	**Classification (indicate whether fresh or marine):** Class III Marine waters

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.):
The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.
a. Effluent Limitation
(1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. *[Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.]*
(2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. *[Rules 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 six months from the last test date and lasting for the duration of this permit.
c. Sampling Requirements
(1) For each routine test or additional follow-up test conducted, a total of three flow proportional 24-hr composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-014, 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 5 ppt, 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.
e. Quality Assurance Requirements
(1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
(2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or any test does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-014, Section 14.12 (**Americamysis bahia**) and Section 13.12 (**Menidia beryllina**). The repeat test shall begin within 21 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose response relationship as required by EPA-821-R-02-014, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.
f. Reporting Requirements
(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
(a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
(2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-014, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-014, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
(5) The same bioassay data shall not be reported as the results of more than one test.
(6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Northwest District Office
160 W. Government Street, Suite 308
Pensacola, Florida 32502-5740
g. Test Failures
(1) A test fails when the test results do not meet the limits in 7.a.(1).
(2) Additional Follow-up Tests:
(a) If a routine test does not meet the chronic toxicity limitation in 7.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 7.d.
(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-014.
(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
(b) The Department shall review and approve the plan before initiation.
(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
(d) Progress reports shall be submitted quarterly to the Department at the address above.
(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 7.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 7.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-014, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 7.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test
will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.
(4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 7.a.(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.
(5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.): Nothing currently active.

Facility Mixing Zone Details (if applicable):

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

Date	Parameter and Units	Limit	Result
February 2, 2016	Total Recoverable Copper ug/L	3.7	6.2

Describe previous FYI and WQBEL study: Last FYI5 occurred during the week of December 10, 2012, Results, Discussion and Conclusions sections from the final Biological Assessment Report below

Results and Discussion

Organic Constituents (See Table 1 and Appendix F)

- Sucralose was detected in effluent, Test Site 1, and Test Site 2 grab samples which indicates that the Test Sites were receiving effluent at the time of sampling. The amount of sucralose detected in both Test Site grab samples was similar and indicates there is not significant direction of flow in Santa Rosa Sound. The amount detected in the Control Site grab sample was between the minimum detection limit (MDL) and the practical quantitation limit (PQL).
- No additional organic constituents were detected in the effluent grab samples or in the study sites' grab samples.
- No organic constituents were detected in the field blank.

Metals (See Table 2 and Appendix F)

- Zinc detected in the effluent grab sample (105 A µg/L) exceeded Class III Marine Water Quality Criteria (62-302.530 (70), F.A.C.)
- All other metals in the effluent, Control Site, and both Test Sites' samples were either undetected or detected at levels that complied with Class III Marine Water Quality Criteria (62-302.530 F.A.C.) and/or effluent permit limits.
- Metals were not detected in the field blank.

Toxicity Whole Effluent Test (See Table 1 and Appendices G and H)

- Tests were performed December 11 through December 18, 2012.
- The effluent composite sample IC25 for the mysid, *Americamysis bahia*, and the IC25 for the fish, *Menidia beryllina*, were calculated as being greater than 100% effluent. If inhibition of growth, survival, or reproduction did occur in these tests, it was less than 25% in 100% effluent; therefore, the effluent was in compliance with effluent permit limits for toxicity.

Physical and Chemical Parameters (See Table 1 and Appendices E and F)

- The shoreline was mostly natural with occasional riprap at the Control Site, Test Site 1, and Test Site 2. All three sites had similar tidal fluctuations, flow and wave action. The benthic substrate was 100% sand at all three sites. The Control Site received only natural runoff, whereas Test Site 1 and Test Site 2 received runoff from a few, small stormwater sources.
- Dissolved oxygen and pH of the effluent, the Control Site and both Test Sites complied with Class III Marine Water Quality Criteria (62-302.530 F.A.C.) and effluent permit limits.
- Total residual chlorine (TRC) of the effluent, measured in the field, complied with Class III Marine Water Quality Criteria and effluent permit limits.
- Chlorophyll *a* (corrected) was not detected in the effluent grab sample but was detected between the MDL and PQL in the grab samples of all three study sites.
- Total suspended solids (TSS) and carbonaceous biochemical oxygen demand (CBOD) were detected in the effluent composite samples between the MDL and PQL and complied with effluent permit limits.
- Turbidity and fluoride were detected in the effluent, Control Site, Test Site 1 and Test Site 2 grab samples in amounts that complied with Class III Marine Water Quality Criteria.

Microbiology (See Table 1 and Appendix F)

- Enterococci were undetected in the effluent grab sample. This is a single sample result while the effluent permit limit is a geometric mean of 5 samples per month.
- Fecal coliforms detected in the effluent grab sample complied with Class III Marine Water Quality Criteria (62-302.530 F.A.C.) and effluent permit limits.

Nutrients (See Table 1 and Appendices F)

- Total phosphorus and total nitrogen of the effluent composite sample complied with effluent permit limits.
- All nutrients were either undetected or detected at low and/or similar amounts in the Control Site, Test Site 1, and Test Site 2 grab samples.

・ All nutrients with the exception of total organic carbon detected in the effluent grab and composite samples were higher than the amounts detected in the Control Site, Test Site 1 and Test Site 2 grab samples. Total organic carbon was detected in similar amounts in the effluent grab sample and in the study sites' grab samples. There was no detectable nutrient enrichment from the effluent at Test Site 1 and Test Site 2. However the effluent does have the potential to cause nutrient enrichment of Santa Rosa Sound.

・ Nutrients were not detected in the field blank.

Algal Growth Potential (See Table 3 and Appendix F)

・ Raschke and Shultz (1987) determined that AGP values above 5.0 mg dry weight/L, which represents a “problem” threshold for fresh receiving waters, imply nutrient enrichment. The AGP of the freshwater effluent sample was 53 times the problem threshold for the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. The result was J-qualified because the lights above the test flasks were out for an unknown period of time (<24 hours).

・ 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 salinity adjusted effluent sample was 11 times the problem threshold for the saltwater species *Dunaliella tertiolecta*.

・ The ratio of total nitrogen to total phosphorus suggests that the effluent is nitrogen limited.

・ The AGP values of the Control Site, Test Site 1, and Test Site 2 samples were below the detection limit for the saltwater species *Dunaliella tertiolecta*. The ratio of total nitrogen to total phosphorus suggests that all three sites are phosphorus limited.

・ The effluent is being sufficiently diluted and is not contributing to nutrient enrichment at the Test Sites.

Bioassessment

Phytoplankton (See Table 4 and Appendices I-1 and I-2)

・ Phytoplankton communities at the Control and both Test Sites consisted mostly of diatoms. *Chaetoceros* sp., a lightly silicified diatom, was the most abundant taxon at all three study sites. The algal community at Test Site 1 also had a high number of *Alexandrium* sp. *Alexandrium* sp. was also present in less abundance at the Control Site and at Test Site 2. There were no adverse affects apparent in the phytoplankton community in the Santa Rosa Sound from the effluent.

Macroinvertebrates (See Table 5 and Appendices J-1 and J-2)

・ No study establishing the path of the effluent plume was conducted prior to sampling. The effluent plume was assumed to move both East and West of Outfall D-001. Historical sampling sites were used for this assessment.

・ The Shannon-Weaver Diversity score and the number of taxa at the Control Site, Test Site 1 and Test Site 2 were similar. The dominant taxon at the Control Site and Test Site 2 was the gastropod, *Acteocina* sp. The dominant taxon at Test Site 1 was *Mediomastus ambiseta*, a polychaete. Test Site 2 had a lower percentage of amphipods than the Control Site and Test Site 1 which had similar numbers of amphipods. The Control Site had a higher percentage of gastropods than both of the Test Sites. Polychaetes were the most abundant at all three sites and made up over half of the community at Test Site 1. The Control Site and Test Site 2 had fewer polychaetes. Test Site 1 had almost twice as many burrowing deposit feeders than the Control Site and Test Site 2. Test Site 2 had a larger percentage of predators than the Control Site and Test Site 1. The Control Site had higher numbers of scrapers than the Test Sites. Overall, there were no negative effects on macroinvertebrates at either of the Test Sites that were attributable to the effluent.

Conclusion

Zinc detected in the effluent grab sample exceeded Class III Marine Water Quality Criteria (62-302.530 (70), F.A.C.). All nutrients detected in the effluent grab and composite samples were detected in higher amounts than those detected in the Control Site, Test Site 1 and Test Site 2 samples. Nutrients were detected in similar amounts in the Control Site, Test Site 1 and Test Site 2 samples. The AGP value of the effluent was 53 times higher than the freshwater problem threshold and 11 times higher than the saltwater problem threshold. The AGP values of the Control Site, Test Site 1, and Test Site 2 samples were below the detection limit. There was no detectable nutrient enrichment from the effluent at Test Site 1 and Test Site 2 based on nutrient and AGP samples. Phytoplankton and macroinvertebrate communities at the Control Site, Test Site 1 and Test Site 2 were similar. There were no negative effects on the macroinvertebrate or phytoplankton communities at Test Site 1 and Test Site 2 that were attributable to the effluent.

Report here:
ftp://ftp.dep.state.fl.us/pub/labs/lds/reports/13142.pdf

Describe previous or current Enforcement Actions (including WLs): Consent Order, OGC No. 07-1203-57-DW was executed 9/12/08 for effluent Copper exceedences. The CO required the facility to evaluate the system and make any necessary improvements to meet the water quality standard. It also provided an interim limit of 12 ug/L. This case was closed in 2012. A Warning Letter was issued on June 16, 2016 for new Copper exceedances in January and February 2016. A meeting was held on July 19, 2016 to discuss this matter. A written response was received on August 3, 2016 indicating the copper exceedances were not expected to continue. The exceedances have not recurred.
Describe any violations or problems noted in previous inspection: The last facility inspection performed on December 10, 2012 inspection report noted one reported effluent exceedance for Total Recoverable Copper in September 2012. A value of 3.9 was reported for the limit of 3.7 ug/L.
Discuss whether DMR trends within previous five years are improving or declining: Improving, the copper problem seems to be under control overall.
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

PART II: Sampling Event Information	
Date(s) sample collected: March 20, 2017; Subsequent toxicity samples collected March 22, 2017, and March 24, 2017.	**Sampler(s):** Dana Vestal
Temperature (Deg C): 3/20 composite, grab 22.8; 3/22 composite 5, grab 20.4; 3/24 composite, grab	**pH (SU):** 3/20 6.66, 3/22 7.05, 3/24 6.67
Dissolved Oxygen (mg/L): 3/20 7.94, 3/22 7.63, 3/24 7.95	**Conductivity (umhos/cm):**
Total Residual Chlorine (mg/L): 3/20 1.57	**Total Residual Chlorine - after Disinfection (mg/L):** 3/20 0.01, 3/22 0.01, 3/24 0.01
Method of Chlorination: Sodium hypochlorite	**Method of De-chlorination:** Sulfur dioxide
Flow During Sample Collection for each outfall(MGD): The only instantaneous flow reading I recorded was 3/22 9:49 a.m. CST 240.9 GPM, or 0.347 MGD. See facility recorded flows for each sample day below.	
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): D-001 0.298 MGD, FLW-02 0.019 MGD April 2016 through March 2017. 3/20 D-001 0.194, 3/22 0.224, 3/24 0.199 daily flow values reported.	
Describe Discharge during Sampling Event: ☒ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify:**	
Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here:	

Appendix C

Explanation of Measurements

(1) Quality Assurance and Quality Control

DEP's quality assurance requirements for analytical laboratories and field activities are codified in Chapter 62-160, F.A.C., Quality Assurance (QA Rule) and in internal Standard Operating Procedures (DEP SOPs). Methods for all analyses are on file at the DEP Laboratory in Tallahassee and may be viewed on the web at http://www.dep.state.fl.us/labs/library/lab_sops.htm and/or http://www.dep.state.fl.us/water/sas/sop/sops.htm.

(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 a potential violation of 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 a potential violation of 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 a potential violation of 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 a potential violation of facility permit limits. Fecal coliform and enterococci 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) Chlorophyll *a* Content

Chlorophyll *a* content is an estimate algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and 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..

(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. 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 (EPA-822-B-00-002). 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 (*Maloney et al. 1974).

(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) Benthic Macroinvertebrate Assemblages

Benthic macroinvertebrates were collected using a petite ponar dredge at all sampling stations. Six replicate ponar samples were collected at each station and sieved through a 500 μm mesh. Benthic macroinvertebrates were sorted and identified to the lowest practical taxonomic level, usually species.

Taxa richness: Taxa richness is the number of distinct macroinvertebrate taxa present in a sample. Decreases in taxa richness related to a facility's effluent may constitute exceedances of 62-302.530(46) F.A.C., 62-302.530(47)(a), F.A.C., 62-302.530(47)(b), F.A.C. and/or 62-302.530(61), F.A.C.

Percent Contribution of Dominant Taxon: Percent contribution of the dominant taxon is calculated by dividing the number of individuals in the most abundant taxa by the total number of individuals counted. Percent contribution of the dominant taxon tends to increase with increasing perturbation (Plafkin *et al*., 1989). Increases in the percent contribution of the dominant taxon related to a facility's effluent 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.

Community Composition: Shifts in proportions of major groups of organisms downstream of a point source, compared to upstream, control conditions, may indicate negative effects of a discharge (Karr and Chu 1998). Shifts in community composition related to a facility's effluent may constitute exceedances of 62-302.530(46) F.A.C., 62-302.530(47)(a) F.A.C., 62-302.530(47)(b) F.A.C. and/or 62-302.530(61), F.A.C.

Functional Feeding Groups: Environmental degradation may differentially affect groups of invertebrates based on how the group feeds (e.g. predators, deposit feeders, etc.). Changes in the proportions of functional feeding groups related to a facility's effluent may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C., 62-302.530(47)(b), F.A.C. and/or 62-302.530(61), F.A.C.

Shannon-Weaver Diversity Index: This index is specified in the Florida Administrative Code 62-302 as a measure of biological integrity. Low diversity scores are undesirable. Where diversity is low, only a few taxa are abundant as compared to an area where many taxa are present in equitable abundance among taxa (Magurran 1988). A difference of 25% in Shannon-Weaver diversity between samples at test and control sites constitutes exceedances of 62-302.530(10), F.A.C.

(9) 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 D

Chain of Custody

C/D/E

Request Number: RQ-2017-03-13-22

FYI5 Navarre Beach Sampling Inspection

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: NW-DIST

Project ID: FYI5

Requester: Lillian Haynes

Collected By: Nathan Mulkey / Mike King

Field Report Prepared By: N. Mulkey

Sampling Agency: FDEP NWROC

Location: Santa Rosa Sound near Paradise Point	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 3/20/17	Time 0930	Eastern (Central)	Composite end Date	Time	Bottle Group(s) (See pg 2)				
Field ID: Control	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.4	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		C/D/E				
STORET # 33030H41	Temp (C) 8.0	pH 7.4	Sample Depth 0.2	☐ ft ☑ m	Sp. Conductance (umho/cm) 2865						
Latitude 30.38413 ☑ dd ☐ dms	Longitude 86.87267 ☐ dd ☐ dms	Salinity (ppt)	Comments								
Location: Santa Rosa Sound east of outfall	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 3/20/17	Time 1015	Eastern (Central)	Composite end Date	Time	Bottle Group(s)				
Field ID: Test #1	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.6	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		C/D/E				
STORET # 33030H31	Temp (C) 17.9	pH 7.8	Sample Depth 0.2	☐ ft ☑ m	Sp. Conductance (umho/cm) 28291						
Latitude 30.38185 ☑ dd ☐ dms	Longitude 86.87889 ☐ dd ☐ dms	Salinity (ppt)	Comments								
Location: Test #2 NM	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 3/20/17	Time 1045	Eastern (Central)	Composite end Date	Time	Bottle Group(s)				
Field ID: Santa Rosa Sound west of outfall	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.6	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		C/D/E				
STORET # 33030H50	Temp (C) 8.0	pH 7.7	Sample Depth 0.2	☐ ft ☑ m	Sp. Conductance (umho/cm) 2836						
Latitude 30.38220 ☑ dd ☐ dms	Longitude 86.87888 ☐ 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)						
STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)						
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	3/20/17	Fed Ex	4	G.D.	3/21/17 9:45

Received 4 brown bags 3/21/17 1038 M. Faircloth

last revised Apr 7, 2016

Request Number: RQ-2017-03-13-22

FYI5 Navarre Beach Sampling Inspection

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: NW-DIST

Project ID: FYI5

Requester: Lillian Haynes

Collected By: Dana Vostal

Field Report Prepared By: Dana Vostal

Sampling Agency: FDEP Pensacola

Location: Navarre Beach FL0023981	☐ Comp ☒ Grab	Collection (comp begin or grab) Date: 3/20/17 Time: 10:52A	Eastern / Central	Composite end Date: Time:	Bottle Group(s) (See pg 2): F
Field ID: Blank	Matrix (type, e.g., Salt, Fresh, etc): DI Water	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location: Navarre Beach FL0023981	☒ Comp ☐ Grab	Collection (comp begin or grab) Date: 3/19/17 Time: 8:30A	Eastern / Central	Composite end Date: 3/20/17 Time: 8:30A	Bottle Group(s): B
Field ID: D001 Composites	Matrix (type, e.g., Salt, Fresh, etc): Wastewater	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location: Navarre Beach FL0023981	☐ Comp ☒ Grab	Collection (comp begin or grab) Date: 3/20/17 Time: 10:13A	Eastern / Central	Composite end Date: Time:	Bottle Group(s): A
Field ID: D001 Grabs	Matrix (type, e.g., Salt, Fresh, etc): Wastewater	Diss. Oxygen: 7.94	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L): 0.01	
STORET #	Temp (C): 22.8	pH: 6.66 SU	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)	
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
Dana Vostal	3/20/17 1:49	FedEX	5	J.G	3/21/17 9:45

4 biosassay trays M. Faircloth 3/21/17 10:38

Request Number: RQ-2017-03-13-22

FYI5 Navarre Beach Sampling Inspection

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: NW-DIST

Project ID: FYI5

Requester: Lillian Haynes

Collected By: Dana Vestal

Field Report Prepared By: Dana Vestal

Sampling Agency: FDEP Pensacola

Location: Navarre Beach FL0023981			☒ Comp ☐ Grab	Collection (comp begin or grab) Date: 3/21/17 Time: 7:40A	Eastern Central	Composite end Date: 3/22/17 Time: 9:40A				Bottle Group(s) (See pg 2): B
Field ID: D-001 composites			Matrix (type, e.g., Salt, Fresh, etc): Wastewater		Diss. Oxygen: 7.63	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L): 0.01			
STORET #: sampler upstream			Temp (C): 20.4°C	pH: 7.05		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):			
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):			
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):			
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
Dana Vestal	3/22/17 9:23A	FedEx	2	JD	3/23/17 10:02

4 jugs 3.23.17 1025 MP

Request Number: RQ-2017-03-13-22

FYI5 Navarre Beach Sampling Inspection

Customer: NW-DIST

Project ID: FYI5

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Requester: Lillian Haynes

Collected By: Dana Vestal

Field Report Prepared By: Dana Vestal

Sampling Agency: FDEP Pensacola

Location: Navarre Beach FL0023981	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 3/23/17 Time 7:40A	Eastern Central	Composite end Date 3/24/17 Time 9:25	Bottle Group(s) (See pg 2): B						
Field ID: D001 composites	Matrix (type, e.g., Salt, Fresh, etc): wastewater	Diss. Oxygen 7.95 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) 0.01								
STORET #	Temp (C)	pH 6.67 7.20 DO	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								
Location: Navarre Beach FL0023981	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/24/17 Time 9:33	Eastern Central	Composite end Date Time	Bottle Group(s): B						
Field ID: D001 Grab - 1 bottle	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)							
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)							
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)							
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
Dana Vestal	3/24/17 9:42 A	Fed Ex	3	[illegible]	3-27-17 9:10

↓ 3 coolers 1910 Rec 3-27-17

Red cooler 2.3°C
Red cooler 0.5°C
Blue cooler 0.4°C

Appendix E

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:
30.3843 86.8726	33030141	3/20/17	0930	Gulf of Mexico

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
	Santa Rosa	Santa Rosa Sound near Paradise Pt.	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) + 1.9 (present depth in m) = ____ (m above bed)

Tide Types and Times

Low 4:30 AM/PM

High 5:28 AM/PM

: 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		6	Ponar
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):	DO%	Salinity	Secchi (m):
Top	0.2	18.0	7.4	8.4	28685	99	17.8	VOB
Mid-depth	0.8	18.0	7.6	8.3	28691	98	17.8	
Bottom	1.4	18.0	7.6	8.1	28911	96	17.9	

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:

incoming tide

Abundance:

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

meter : 132237

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Melby / Mike King		3/20/17

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:
30.38185 86.87889	33030131	3/20/17	1015	Gulf of Mexico

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
~50m east	Santa Rosa	Santa Rosa Sound East of outfall	Test 1

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) + 2.6 (present depth in m) = ____ (m above bed)

Tide Types and Times

Low 4:30 (AM) PM

High 5:28 AM (PM)

____ : 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		6	PONAR
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):	DO%	Sal	Secchi (m):
Top	0.2	17.9	7.8	8.6	28291	100	17.5	VOB
Mid-depth	1.0	17.5	7.8	8.7	28369	100	17.6	
Bottom	2.1	17.6	7.8	8.7	28494	100	17.6	

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:

incoming tide

Abundance:

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

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Mulky / Mike King	Nathan Mulky	3/20/17

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:
30.38220 86.87988	33030H50	3/20/17	1045	Gulf of Mexico

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
~50m west	Santa Rosa	Santa Rosa Sound West of outfall	Test 2

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) + 2.3 (present depth in m) = ____ (m above bed)

Tide Types and Times

low	4:30 AM/PM	High	5:28 AM/PM
	: 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		6	Dredge
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):	DO%	Salinity	Secchi (m):
Top	0.2	18.0	7.7	8.6	28364	101	17.5	
Mid-depth	1.0	18.0	7.8	8.4	28460	99	17.6	YOB
Bottom	1.8	18.1	7.8	8.3	28911	98	17.9	

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: incoming tide

Abundance:

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

meter 132237

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Malloy / Mike King		3/20/17

Appendix F

Chemical analysis of effluent and receiving water

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	WATER	2.1	mg/L	0.2	2
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Toxicology	Bioassay-Chron-Def-SW-Fish, IC25	WATER	100 L	IC25		
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Toxicology	Bioassay-Chron-Def-SW-Mysid, NOEC	WATER	100	NOEC		
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Toxicology	Bioassay-Chron-Def-SW-Mysid, IC25	WATER	100 L	IC25		
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Toxicology	Bioassay-Chron-Def-SW-Fish, NOEC	WATER	100	NOEC		
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Cadmium	WATER	0.020 U	ug/L	0.02	0.08
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Aluminum	WATER	3.0 U	ug/L	3	12
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Calcium	WATER	16.2	mg/L	0.075	0.3
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Selenium	WATER	0.20 U	ug/L	0.2	0.8
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Nickel	WATER	1.54	ug/L	0.2	0.8
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Chromium	WATER	0.40 U	ug/L	0.4	1.6
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Iron	WATER	63 I	ug/L	30	120
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Silver	WATER	0.010 U	ug/L	0.01	0.04
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Magnesium	WATER	3.77	mg/L	0.04	0.16
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Potassium	WATER	10.0	mg/L	0.3	1.2
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Zinc	WATER	30.5	ug/L	1	4
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Sodium	WATER	79.2	mg/L	0.5	2
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Copper	WATER	1.06	ug/L	0.2	0.8

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Lead	WATER	0.050 U	ug/L	0.05	0.2
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Metals	Arsenic	WATER	0.58	ug/L	0.05	0.2
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Nutrients	Organic Carbon	WATER	3.8	mg C/L	0.5	1
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Nutrients	Total-P	WATER	0.78	mg P/L	0.005	0.05
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Nutrients	Kjeldahl Nitrogen	WATER	0.51	mg N/L	0.08	0.2
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Nutrients	Ammonia-N	WATER	0.030	mg N/L	0.002	0.005
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981	D-001 Composites	Nutrients	TSS	WATER	3 I	mg/L	2	10
3/20/2017 9:30	Effluent Composite	Navarre Beach FL0023981 (FL0023981)	D-001 Composites (FL0023981)	Nutrients	NO2NO3-N	WATER	0.42	mg N/L	0.004	0.01
3/20/2017 12:14	Effluent Grab	Navarre Beach WWTP Effluent (FL0023981)	Navarre Beach WWTP (FL0023981)	Overflow	Enterococci-Membrane Filter	WATER	2 U	cfu/100 mL	2	2
3/20/2017 12:14	Effluent Grab	Navarre Beach WWTP Effluent	Navarre Beach WWTP	Overflow	Fecal Coliforms-Membrane Filter	WATER	2 U	cfu/100 mL	2	2
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	AGP/LN	Algal Growth Potential-Salinity Adjusted	WATER	17.0	mg DryWt/L	3	3
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	AGP/LN	Algal Growth Potential	WATER	22.2	mg DryWt/L	0.3	0.9
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	WATER	0.40 U	ug/L	0.4	1.2
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	WATER	0.55 U	ug/L	0.55	1.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Chlorophyll/Grain Size/BOD	Chlorophyll/Phaeophytin Ratio	WATER	1.0		0	0
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Chlorophyll/Grain Size/BOD	Phaeophytin-a	WATER	0.40 U	ug/L	0.4	1.2
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Kjeldahl Nitrogen	WATER	0.52	mg N/L	0.08	0.2
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	NO2NO3-N	WATER	0.38	mg N/L	0.004	0.01
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Fluoride	WATER	0.054 I	mg F/L	0.035	0.1

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Ammonia-N	WATER	0.028	mg N/L	0.002	0.005
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Chloride	WATER	70	mg Cl/L	0.2	0.5
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Sulfate	WATER	60	mg SO4/L	0.2	0.5
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Total-P	WATER	0.80	mg P/L	0.005	0.05
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Organic Carbon	WATER	3.9	mg C/L	0.5	1
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Color (true)	WATER	9.0	PCU	2.5	6
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Turbidity	WATER	0.75	NTU	0.1	0.1
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Total Alkalinity	WATER	81	mg CaCO3/L	0.65	2.5
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	O-Phosphate-P	WATER	0.72	mg P/L	0.08	0.2
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Triclopyr	WATER	0.010 U	ug/L	0.01	0.04
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Fenuron	WATER	0.0080 U	ug/L	0.008	0.032
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Alachlor	WATER	0.059 U	ug/L	0.059	0.24
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Disulfoton	WATER	0.0049 U	ug/L	0.0049	0.02
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Malathion	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Norflurazon	WATER	0.029 U	ug/L	0.029	0.12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Parathion Ethyl	WATER	0.020 UJ	ug/L	0.02	0.078
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Acetaminophen	WATER	0.010 U	ug/L	0.01	0.04
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Atrazine	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Butylate	WATER	0.020 U	ug/L	0.02	0.078
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Fenamiphos	WATER	0.029 U	ug/L	0.029	0.12

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Hexazinone	WATER	0.029 U	ug/L	0.029	0.12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Primidone	WATER	0.22	ug/L	0.008	0.032
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Carbamazepine	WATER	0.047	ug/L	0.0004	0.0016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Ametryn	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Diazinon	WATER	0.0098 UJ	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Metribuzin	WATER	0.020 U	ug/L	0.02	0.078
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Naled	WATER	0.039 U	ug/L	0.039	0.16
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Linuron	WATER	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Ethion	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Metolachlor	WATER	0.059 U	ug/L	0.059	0.24
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Parathion Methyl	WATER	0.0098 UJ	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Prometon	WATER	0.020 U	ug/L	0.02	0.078
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Bentazon	WATER	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Diuron	WATER	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Imidacloprid	WATER	0.047	ug/L	0.004	0.016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	MCPP	WATER	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Metalaxyl	WATER	0.039 U	ug/L	0.039	0.16
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Ethoprop	WATER	0.0049 U	ug/L	0.0049	0.02
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Demeton	WATER	0.024 U	ug/L	0.024	0.094
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Chlorpyrifos Methyl	WATER	0.0098 U	ug/L	0.0098	0.039

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Chlorpyrifos Ethyl	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Azinphos Methyl	WATER	0.020 U	ug/L	0.02	0.078
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Atrazine Desethyl	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	2,4-D	WATER	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Simazine	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Phorate	WATER	0.0049 U	ug/L	0.0049	0.02
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Mevinphos	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Fonofos	WATER	0.0098 UJ	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Bromacil	WATER	0.039 U	ug/L	0.039	0.16
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Atrazine Desisopropyl	WATER	0.0098 U	ug/L	0.0098	0.039
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Sucralose	WATER	35	ug/L	0.01	0.04
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Prometryn	WATER	0.020 U	ug/L	0.02	0.078
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Pesticides	Fluridone	WATER	4.0E-04 U	ug/L	0.0004	0.0016
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	1,2,4-Trichlorobenzene	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	3,3'-Dichlorobenzidine	WATER	38 U	ug/L	38	150
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Benzo(g,h,i)perylene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Di-n-butyl phthalate	WATER	1.9 U	ug/L	1.9	7.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Dibenzo(a,h)anthracene	WATER	0.19 U	ug/L	0.19	0.77

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Hexachlorocyclopentadiene	WATER	2.9 U	ug/L	2.9	12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Hexachloroethane	WATER	2.9 U	ug/L	2.9	12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Naphthalene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Nitrobenzene	WATER	1.9 U	ug/L	1.9	7.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2,4,6-Trichlorophenol	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2,4-Dimethylphenol	WATER	9.6 U	ug/L	9.6	38
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2,4-Dinitrophenol	WATER	14 U	ug/L	14	58
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Acenaphthene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Benzo(a)anthracene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Benzo(a)pyrene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Diethyl phthalate	WATER	1.9 U	ug/L	1.9	7.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2,6-Dinitrotoluene	WATER	0.96 U	ug/L	0.96	3.8

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Butyl benzyl phthalate	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Chrysene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Di-n-octyl phthalate	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	N-Nitrosodimethylamine	WATER	1.9 U	ug/L	1.9	7.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2-Nitrophenol	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	4-Bromophenyl phenyl ether	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	4-Nitrophenol	WATER	14 U	ug/L	14	58
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Benzo(b)fluoranthene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Hexachlorobutadiene	WATER	2.9 U	ug/L	2.9	12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Isophorone	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	WATER	2.9 U	ug/L	2.9	12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Benzidine	WATER	96 U	ug/L	96	380

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Fluoranthene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Fluorene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Pyrene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	1,4-Dioxane	WATER	0.39 Y	ug/L	0.02	0.08
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Acenaphthylene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Anthracene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	WATER	1.9 U	ug/L	1.9	7.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2-Chloronaphthalene	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	4-Chloro-3-methylphenol	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	WATER	1.9 U	ug/L	1.9	7.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Benzo(k)fluoranthene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2,4-Dichlorophenol	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2,4-Dinitrotoluene	WATER	0.96 U	ug/L	0.96	3.8

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2-Chlorophenol	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	WATER	2.9 U	ug/L	2.9	12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Bis(2-chloroethyl)ether	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	WATER	2.9 U	ug/L	2.9	12
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	WATER	1.9 U	ug/L	1.9	7.7
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Dimethyl phthalate	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Hexachlorobenzene	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Pentachlorophenol	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Phenanthrene	WATER	0.19 U	ug/L	0.19	0.77
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Priority Organic Pollutants	Phenol	WATER	0.96 U	ug/L	0.96	3.8
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Dissolved Oxygen	WATER	7.94	mg/L		
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Total Residual Chlorine	WATER	0.01	mg/L		
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	pH	WATER	6.66			
3/20/2017 11:13	Effluent Grab	Navarre Beach FL0023981	D-001 Grabs	Nutrients	Temperature	WATER	22.8	C		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	AGP/LN	Algal Growth Potential	W-SURF-SLT	3.0 U	mg DryWt/L	3	3

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	W-SURF-SLT	0.68 I	mg/L	0.2	2
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Chlorophyll/Phaeophytin Ratio	W-SURF-SLT	2.1		0	0
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Phaeophytin-a	W-SURF-SLT	0.45 U	ug/L	0.45	1.4
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size 0.031-0.0625mm,CoarseSilt	SEDIMENT	1.37	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size >2.0 mm, ASTM Sieve #10	SEDIMENT	1.0 K	%totdrywt	0	1
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	ParticleSize0.0039-0.0078mm,VeryFineSilt	SEDIMENT	1.53	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size 0.50-1.0 mm, Coarse Sand	SEDIMENT	20.4	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	W-SURF-SLT	0.61 I	ug/L	0.45	1.4
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size 0.125-0.25 mm, Fine Sand	SEDIMENT	8.32	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	ParticleSize 0.0625-0.125mm,VeryFineSand	SEDIMENT	0.940	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	W-SURF-SLT	0.74 I	ug/L	0.62	1.9
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size 0.25-0.50 mm, Medium Sand	SEDIMENT	60.1	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size <0.0039 mm, Clay	SEDIMENT	1.01	% vol <2mm	0	0.01

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size 0.0078-0.0156 mm,FineSilt	SEDIMENT	2.20	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Sediment % Organic	SEDIMENT	1.0 K	% dry wt		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size 0.0156-0.031mm,MediumSilt	SEDIMENT	2.05	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Chlorophyll/Grain Size/BOD	Particle Size 1.0-2.0mm,Very Coarse Sand	SEDIMENT	2.09	% vol <2mm	0	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Overflow	Fecal Coliforms-Membrane Filter	W-SURF-SLT	2 U	cfu/100 mL	2	2
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Overflow	Enterococci-Membrane Filter	W-SURF-SLT	2 U	cfu/100 mL	2	2
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	W-SURF-SLT	24	# Taxa		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Calcium	W-SURF-SLT	190	mg/L	0.075	0.3
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Arsenic	SEDIMENT	0.696	mg/Kg	0.0097	0.039
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Aluminum	W-SURF-SLT	41	ug/L	9	36
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Lead	W-SURF-SLT	0.15 U	ug/L	0.15	0.6
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Selenium	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Cadmium	SEDIMENT	0.0097 U	mg/Kg	0.0097	0.039

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Zinc	SEDIMENT	4.8 U	mg/Kg	4.8	19
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Potassium	W-SURF-SLT	188	mg/L	6	24
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Sodium	W-SURF-SLT	5.17E+03	mg/L	25	100
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Lead	SEDIMENT	0.97	mg/Kg	0.097	0.39
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Silver	SEDIMENT	0.0053 I	mg/Kg	0.0036	0.015
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Cadmium	W-SURF-SLT	0.060 U	ug/L	0.06	0.24
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Chromium	W-SURF-SLT	1.2 U	ug/L	1.2	4.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Chromium	SEDIMENT	2.32	mg/Kg	0.24	0.97
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Magnesium	W-SURF-SLT	648	mg/L	0.8	3.2
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Nickel	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Zinc	W-SURF-SLT	3.5 I	ug/L	3	12
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Arsenic	W-SURF-SLT	1.15	ug/L	0.15	0.6
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Copper	W-SURF-SLT	0.60 U	ug/L	0.6	2.4

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Silver	W-SURF-SLT	0.030 U	ug/L	0.03	0.12
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Iron	W-SURF-SLT	30 U	ug/L	30	120
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Copper	SEDIMENT	0.83	mg/Kg	0.036	0.15
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Metals	Nickel	SEDIMENT	0.64 I	mg/Kg	0.36	1.5
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Turbidity	W-SURF-SLT	0.60	NTU	0.1	0.1
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Fluoride	W-SURF-SLT	0.59	mg F/L	0.18	0.5
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	O-Phosphate-P	W-SURF-SLT	0.004 U	mg P/L	0.004	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Total-P	W-SURF-SLT	0.008 I	mg P/L	0.004	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Total Alkalinity	W-SURF-SLT	72 A	mg CaCO3/L	0.65	2.5
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Kjeldahl Nitrogen	W-SURF-SLT	0.16 U	mg N/L	0.16	0.4
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Color (true)	W-SURF-SLT	2.5 U	PCU	2.5	6
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	TSS	W-SURF-SLT	3 U	mg/L	3	10
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Chloride	W-SURF-SLT	9.9E+03	mg Cl/L	20	50

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Sulfate	W-SURF-SLT	1.4E+03	mg SO4/L	20	50
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Organic Carbon	W-SURF-SLT	3.0	mg C/L	1	2
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Ammonia-N	W-SURF-SLT	0.002 U	mg N/L	0.002	0.005
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	NO2NO3-N	W-SURF-SLT	0.006 I	mg N/L	0.004	0.01
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Pesticides	Sucralose	W-SURF-SLT	0.35	ug/L	0.01	0.04
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Phenol	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	1,2,4-Trichlorobenzene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4,6-Trichlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dimethylphenol	W-SURF-SLT	9.6 U	ug/L	9.6	38
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dinitrotoluene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzidine	W-SURF-SLT	96 U	ug/L	96	380
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Isophorone	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Chloronaphthalene	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Chrysene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Naphthalene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Phenanthrene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Acenaphthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(b)fluoranthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Diethyl phthalate	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachlorobutadiene	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachloroethane	W-SURF-SLT	2.9 U	ug/L	2.9	12

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Nitrobenzene	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	1,2,4-Trichlorobenzene	W-SURF-SLT	230 U	ug/kg	230	900
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4,6-Trichlorophenol	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dinitrophenol	W-SURF-SLT	450 UJ	ug/kg	450	1800
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,6-Dinitrotoluene	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-chloroethyl)ether	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	W-SURF-SLT	450 U	ug/kg	450	1800
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Butyl benzyl phthalate	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachlorobutadiene	W-SURF-SLT	230 U	ug/kg	230	900
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Chloro-3-methylphenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Nitrophenol	W-SURF-SLT	14 U	ug/L	14	58
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Chloro-3-methylphenol	W-SURF-SLT	75 U	ug/kg	75	300

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Dimethyl phthalate	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachlorobenzene	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachloroethane	W-SURF-SLT	230 U	ug/kg	230	900
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	N-Nitrosodimethylamine	W-SURF-SLT	450 U	ug/kg	450	1800
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	1,4-Dioxane	W-SURF-SLT	0.020 U	ug/L	0.02	0.08
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dinitrophenol	W-SURF-SLT	14 U	ug/L	14	58
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Chloronaphthalene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Acenaphthylene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Butyl benzyl phthalate	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Naphthalene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dichlorophenol	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dinitrotoluene	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Bromophenyl phenyl ether	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Diethyl phthalate	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Nitrobenzene	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dichlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(k)fluoranthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Chrysene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Di-n-butyl phthalate	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Dibenzo(a,h)anthracene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Fluoranthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Fluorene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachlorocyclopentadiene	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	N-Nitrosodimethylamine	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Phenanthrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Chlorophenol	W-SURF-SLT	230 U	ug/kg	230	900
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Nitrophenol	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Acenaphthylene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Di-n-octyl phthalate	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Fluorene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Pyrene	SEDIMENT	8.8 I	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Chlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Bromophenyl phenyl ether	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	W-SURF-SLT	2.9 U	ug/L	2.9	12

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Phenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,4-Dimethylphenol	W-SURF-SLT	450 U	ug/kg	450	1800
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	3,3'-Dichlorobenzidine	W-SURF-SLT	4.5E+03 U	ug/kg	4500	18000
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Anthracene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzidine	W-SURF-SLT	1.6E+03 U	ug/kg	1600	6500
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Dibenzo(a,h)anthracene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Fluoranthene	SEDIMENT	8.8 I	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Isophorone	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2,6-Dinitrotoluene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	3,3'-Dichlorobenzidine	W-SURF-SLT	38 U	ug/L	38	150
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Di-n-octyl phthalate	W-SURF-SLT	0.96 U	ug/L	0.96	3.8

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachlorobenzene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(a)anthracene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(a)pyrene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(g,h,i)perylene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Pentachlorophenol	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	2-Nitrophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Anthracene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(a)anthracene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(a)pyrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(g,h,i)perylene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-chloroethyl)ether	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Dimethyl phthalate	W-SURF-SLT	0.96 U	ug/L	0.96	3.8

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Pentachlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Pyrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	4-Nitrophenol	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Acenaphthene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(b)fluoranthene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Benzo(k)fluoranthene	W-SURF-SLT	8.3 U	ug/kg	8.3	33
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Di-n-butyl phthalate	W-SURF-SLT	450 U	ug/kg	450	1800
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Priority Organic Pollutants	Hexachlorocyclopentadiene	W-SURF-SLT	75 U	ug/kg	75	300
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Dissolved Oxygen	W-SURF-SLT	8.6	mg/L		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	pH	W-SURF-SLT	7.8			
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Specific Conductance	W-SURF-SLT	28291	umhos/cm		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	% Solid	W-SURF-SLT	78.6	%	0.1	0.1

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	pH	W-SURF-SLT	7.8			
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Sample Depth	W-SURF-SLT	0.2	m		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Sample Depth	W-SURF-SLT	0.2	m		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Temperature	W-SURF-SLT	17.9	C		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Temperature	W-SURF-SLT	17.9	C		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Specific Conductance	W-SURF-SLT	28291	umhos/cm		
3/20/2017 11:15	Test Site 1	Santa Rosa Sound east of outfall	Test #1	Nutrients	Dissolved Oxygen	W-SURF-SLT	8.6	mg/L		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	AGP/LN	Algal Growth Potential	W-SURF-SLT	3.0 U	mg DryWt/L	3	3
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	W-SURF-SLT	0.80 I	ug/L	0.55	1.7
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Phaeophytin-a	W-SURF-SLT	0.40 U	ug/L	0.4	1.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size >2.0 mm, ASTM Sieve #10	SEDIMENT	1.0 K	%totdrywt	0	1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size 0.125-0.25 mm, Fine Sand	SEDIMENT	5.78 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Chlorophyll/Phaeophytin Ratio	W-SURF-SLT	1.9		0	0

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	W-SURF-SLT	0.84 I	mg/L	0.2	2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	ParticleSize0.0039-0.0078mm,VeryFineSilt	SEDIMENT	1.06 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Sediment % Organic	SEDIMENT	1.0 K	% dry wt		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	ParticleSize 0.0625-0.125mm,VeryFineSand	SEDIMENT	0.565 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size 1.0-2.0mm,Very Coarse Sand	SEDIMENT	2.06 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size 0.031-0.0625mm,CoarseSilt	SEDIMENT	0.740 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size 0.0078-0.0156 mm,FineSilt	SEDIMENT	1.28 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size 0.50-1.0 mm, Coarse Sand	SEDIMENT	29.6 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size 0.25-0.50 mm, Medium Sand	SEDIMENT	57.0 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size 0.0156-0.031mm,MediumSilt	SEDIMENT	1.07 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	W-SURF-SLT	0.71 I	ug/L	0.4	1.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Chlorophyll/Grain Size/BOD	Particle Size <0.0039 mm, Clay	SEDIMENT	0.870 A	% vol <2mm	0	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Overflow	Fecal Coliforms-Membrane Filter	W-SURF-SLT	2 B	cfu/100 mL	2	2

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	W-SURF-SLT	15	# Taxa		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Overflow	Enterococci-Membrane Filter	W-SURF-SLT	2 U	cfu/100 mL	2	2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Chromium	SEDIMENT	1.72	mg/Kg	0.23	0.94
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Copper	SEDIMENT	0.65	mg/Kg	0.035	0.14
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Chromium	W-SURF-SLT	1.2 U	ug/L	1.2	4.8
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Silver	SEDIMENT	0.0035 U	mg/Kg	0.0035	0.014
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Silver	W-SURF-SLT	0.030 U	ug/L	0.03	0.12
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Cadmium	W-SURF-SLT	0.060 U	ug/L	0.06	0.24
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Nickel	SEDIMENT	0.42 I	mg/Kg	0.35	1.4
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Magnesium	W-SURF-SLT	657	mg/L	0.8	3.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Zinc	SEDIMENT	4.7 U	mg/Kg	4.7	19
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Lead	SEDIMENT	0.82	mg/Kg	0.094	0.38
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Potassium	W-SURF-SLT	192	mg/L	6	24

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Zinc	W-SURF-SLT	3.4 I	ug/L	3	12
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Selenium	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Copper	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Iron	W-SURF-SLT	30 U	ug/L	30	120
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Calcium	W-SURF-SLT	192	mg/L	0.075	0.3
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Nickel	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Arsenic	W-SURF-SLT	1.30	ug/L	0.15	0.6
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Sodium	W-SURF-SLT	5.29E+03	mg/L	25	100
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Lead	W-SURF-SLT	0.15 U	ug/L	0.15	0.6
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Arsenic	SEDIMENT	0.468	mg/Kg	0.0094	0.038
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Cadmium	SEDIMENT	0.0094 U	mg/Kg	0.0094	0.038
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Metals	Aluminum	W-SURF-SLT	45	ug/L	9	36
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Chloride	W-SURF-SLT	1.0E+04	mg Cl/L	20	50

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Color (true)	W-SURF-SLT	2.5 U	PCU	2.5	6
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Sulfate	W-SURF-SLT	1.4E+03	mg SO4/L	20	50
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Fluoride	W-SURF-SLT	0.59	mg F/L	0.18	0.5
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Ammonia-N	W-SURF-SLT	0.002 U	mg N/L	0.002	0.005
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	O-Phosphate-P	W-SURF-SLT	0.004 U	mg P/L	0.004	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Organic Carbon	W-SURF-SLT	3.1	mg C/L	1	2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	NO2NO3-N	W-SURF-SLT	0.006 I	mg N/L	0.004	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	TSS	W-SURF-SLT	4 I	mg/L	3	10
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Total-P	W-SURF-SLT	0.008 I	mg P/L	0.004	0.01
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Turbidity	W-SURF-SLT	0.65	NTU	0.1	0.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Total Alkalinity	W-SURF-SLT	72	mg CaCO3/L	0.65	2.5
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Kjeldahl Nitrogen	W-SURF-SLT	0.16 U	mg N/L	0.16	0.4
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Pesticides	Sucralose	W-SURF-SLT	0.39	ug/L	0.01	0.04

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachlorocyclopentadiene	W-SURF-SLT	3.1 U	ug/L	3.1	12
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	W-SURF-SLT	2.1 U	ug/L	2.1	8.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Phenanthrene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Pyrene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dichlorophenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Acenaphthylene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(k)fluoranthene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachloroethane	W-SURF-SLT	260 U	ug/kg	260	1000
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dimethylphenol	W-SURF-SLT	10 U	ug/L	10	41
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dinitrophenol	W-SURF-SLT	15 U	ug/L	15	62
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Butyl benzyl phthalate	W-SURF-SLT	1.0 U	ug/L	1	4.1

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Pentachlorophenol	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Phenol	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dinitrotoluene	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Chloronaphthalene	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(g,h,i)perylene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachlorocyclopentadiene	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Nitrobenzene	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Pentachlorophenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	W-SURF-SLT	3.1 U	ug/L	3.1	12
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-chloroethyl)ether	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	W-SURF-SLT	3.1 U	ug/L	3.1	12
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Di-n-octyl phthalate	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	W-SURF-SLT	3.1 U	ug/L	3.1	12

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	3,3'-Dichlorobenzidine	W-SURF-SLT	5.2E+03 U	ug/kg	5200	21000
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(a)pyrene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Fluorene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachlorobenzene	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Phenanthrene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Pyrene	SEDIMENT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	1,4-Dioxane	W-SURF-SLT	0.020 U	ug/L	0.02	0.08
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzidine	W-SURF-SLT	100 U	ug/L	100	410
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Diethyl phthalate	W-SURF-SLT	2.1 U	ug/L	2.1	8.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachlorobenzene	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Naphthalene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Acenaphthene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	W-SURF-SLT	520 U	ug/kg	520	2100
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Di-n-butyl phthalate	W-SURF-SLT	520 U	ug/kg	520	2100
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Diethyl phthalate	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Chloronaphthalene	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(a)anthracene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(b)fluoranthene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(k)fluoranthene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	W-SURF-SLT	2.1 U	ug/L	2.1	8.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Dibenzo(a,h)anthracene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachloroethane	W-SURF-SLT	3.1 U	ug/L	3.1	12
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Isophorone	W-SURF-SLT	1.0 U	ug/L	1	4.1

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4,6-Trichlorophenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dinitrophenol	W-SURF-SLT	520 UJ	ug/kg	520	2100
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Bromophenyl phenyl ether	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Chloro-3-methylphenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzidine	W-SURF-SLT	1.9E+03 U	ug/kg	1900	7500
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Phenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dinitrotoluene	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Bromophenyl phenyl ether	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Acenaphthene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Acenaphthylene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Anthracene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Di-n-butyl phthalate	W-SURF-SLT	2.1 U	ug/L	2.1	8.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	N-Nitrosodimethylamine	W-SURF-SLT	2.1 U	ug/L	2.1	8.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Nitrobenzene	W-SURF-SLT	2.1 U	ug/L	2.1	8.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Nitrophenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Chrysene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Fluoranthene	SEDIMENT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Isophorone	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	N-Nitrosodimethylamine	W-SURF-SLT	520 U	ug/kg	520	2100
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4,6-Trichlorophenol	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Chlorophenol	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Nitrophenol	W-SURF-SLT	15 U	ug/L	15	62
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(a)pyrene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(g,h,i)perylene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Chrysene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Dimethyl phthalate	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Fluoranthene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Fluorene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachlorobutadiene	W-SURF-SLT	3.1 U	ug/L	3.1	12
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	W-SURF-SLT	0.21 U	ug/L	0.21	0.82
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dimethylphenol	W-SURF-SLT	520 U	ug/kg	520	2100
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Nitrophenol	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Anthracene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-chloroethyl)ether	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Di-n-octyl phthalate	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Dibenzo(a,h)anthracene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Hexachlorobutadiene	W-SURF-SLT	260 U	ug/kg	260	1000

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Naphthalene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,4-Dichlorophenol	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,6-Dinitrotoluene	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Nitrophenol	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Chloro-3-methylphenol	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	W-SURF-SLT	2.1 U	ug/L	2.1	8.2
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	1,2,4-Trichlorobenzene	W-SURF-SLT	260 U	ug/kg	260	1000
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2,6-Dinitrotoluene	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	2-Chlorophenol	W-SURF-SLT	260 U	ug/kg	260	1000
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(a)anthracene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Benzo(b)fluoranthene	W-SURF-SLT	9.6 U	ug/kg	9.6	39
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	W-SURF-SLT	87 U	ug/kg	87	350

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Butyl benzyl phthalate	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	Dimethyl phthalate	W-SURF-SLT	87 U	ug/kg	87	350
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	1,2,4-Trichlorobenzene	W-SURF-SLT	1.0 U	ug/L	1	4.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Priority Organic Pollutants	3,3'-Dichlorobenzidine	W-SURF-SLT	41 U	ug/L	41	160
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Temperature	W-SURF-SLT	18.0	C		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Specific Conductance	W-SURF-SLT	28364	umhos/cm		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Dissolved Oxygen	W-SURF-SLT	8.6	mg/L		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Sample Depth	W-SURF-SLT	0.2	m		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Specific Conductance	W-SURF-SLT	28364	umhos/cm		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	pH	W-SURF-SLT	7.7			
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	% Solid	W-SURF-SLT	68.3	%	0.1	0.1
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Temperature	W-SURF-SLT	18.0	C		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Dissolved Oxygen	W-SURF-SLT	8.6	mg/L		

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	Sample Depth	W-SURF-SLT	0.2	m		
3/20/2017 11:45	Test Site 2	Santa Rosa Sound west of outfall	Test #2	Nutrients	pH	W-SURF-SLT	7.7			
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	AGP/LN	Algal Growth Potential	W-SURF-SLT	3.0 U	mg DryWt/L	3	3
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	W-SURF-SLT	0.67 I	mg/L	0.2	2
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size <0.0039 mm, Clay	SEDIMENT	0.600	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size 0.0156-0.031mm,MediumSilt	SEDIMENT	1.05	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size 0.50-1.0 mm, Coarse Sand	SEDIMENT	34.9	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size 0.0078-0.0156 mm,FineSilt	SEDIMENT	1.10	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size 1.0-2.0mm,Very Coarse Sand	SEDIMENT	1.16	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Sediment % Organic	SEDIMENT	1.0 K	% dry wt		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	W-SURF-SLT	0.63 I	ug/L	0.55	1.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	ParticleSize0.0039-0.0078mm,VeryFineSilt	SEDIMENT	0.740	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Chlorophyll/Phaeophytin Ratio	W-SURF-SLT	2.0		0	0

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size >2.0 mm, ASTM Sieve #10	SEDIMENT	1.0 K	%totdrywt	0	1
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Phaeophytin-a	W-SURF-SLT	0.40 U	ug/L	0.4	1.2
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	ParticleSize 0.0625-0.125mm,VeryFineSand	SEDIMENT	0.490	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size 0.031-0.0625mm,CoarseSilt	SEDIMENT	0.670	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size 0.125-0.25 mm, Fine Sand	SEDIMENT	4.34	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Particle Size 0.25-0.50 mm, Medium Sand	SEDIMENT	54.9	% vol <2mm	0	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	W-SURF-SLT	0.54 I	ug/L	0.4	1.2
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Overflow	Fecal Coliforms-Membrane Filter	W-SURF-SLT	2 U	cfu/100 mL	2	2
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Overflow	Enterococci-Membrane Filter	W-SURF-SLT	2 U	cfu/100 mL	2	2
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	W-SURF-SLT	17	# Taxa		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Nickel	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Arsenic	SEDIMENT	0.418	mg/Kg	0.0099	0.04
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Aluminum	W-SURF-SLT	50	ug/L	9	36

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Chromium	SEDIMENT	1.27	mg/Kg	0.25	0.99
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Magnesium	W-SURF-SLT	672	mg/L	0.8	3.2
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Calcium	W-SURF-SLT	198	mg/L	0.075	0.3
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Lead	SEDIMENT	0.61	mg/Kg	0.099	0.4
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Nickel	SEDIMENT	0.38 I	mg/Kg	0.37	1.5
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Zinc	W-SURF-SLT	11 I	ug/L	3	12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Copper	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Sodium	W-SURF-SLT	5.39E+03	mg/L	25	100
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Copper	SEDIMENT	0.43	mg/Kg	0.037	0.15
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Lead	W-SURF-SLT	0.15 U	ug/L	0.15	0.6
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Selenium	W-SURF-SLT	0.60 U	ug/L	0.6	2.4
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Silver	W-SURF-SLT	0.030 U	ug/L	0.03	0.12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Iron	W-SURF-SLT	30 U	ug/L	30	120

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Potassium	W-SURF-SLT	196	mg/L	6	24
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Silver	SEDIMENT	0.0037 U	mg/Kg	0.0037	0.015
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Zinc	SEDIMENT	4.9 U	mg/Kg	4.9	20
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Cadmium	W-SURF-SLT	0.060 U	ug/L	0.06	0.24
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Cadmium	SEDIMENT	0.0099 U	mg/Kg	0.0099	0.04
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Chromium	W-SURF-SLT	1.2 U	ug/L	1.2	4.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Metals	Arsenic	W-SURF-SLT	1.04	ug/L	0.15	0.6
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	O-Phosphate-P	W-SURF-SLT	0.004 U	mg P/L	0.004	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Sulfate	W-SURF-SLT	1.4E+03	mg SO4/L	20	50
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Fluoride	W-SURF-SLT	0.60	mg F/L	0.18	0.5
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Turbidity	W-SURF-SLT	0.75	NTU	0.1	0.1
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	NO2NO3-N	W-SURF-SLT	0.005 I	mg N/L	0.004	0.01
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Total-P	W-SURF-SLT	0.025	mg P/L	0.004	0.01

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Color (true)	W-SURF-SLT	2.5 U	PCU	2.5	6
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Total Alkalinity	W-SURF-SLT	72	mg CaCO3/L	0.65	2.5
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Chloride	W-SURF-SLT	1.0E+04	mg Cl/L	20	50
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	TSS	W-SURF-SLT	4 I	mg/L	3	10
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Kjeldahl Nitrogen	W-SURF-SLT	0.27 I	mg N/L	0.16	0.4
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Organic Carbon	W-SURF-SLT	3.3	mg C/L	1	2
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Ammonia-N	W-SURF-SLT	0.002 U	mg N/L	0.002	0.005
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Pesticides	Sucralose	W-SURF-SLT	0.19	ug/L	0.01	0.04
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Butyl benzyl phthalate	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Fluoranthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4,6-Trichlorophenol	W-SURF-SLT	80 U	ug/kg	80	320

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dimethylphenol	W-SURF-SLT	480 U	ug/kg	480	1900
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dinitrotoluene	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Isophorone	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Phenol	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Chlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(b)fluoranthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Di-n-butyl phthalate	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Dibenzo(a,h)anthracene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Fluorene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachlorocyclopentadiene	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Nitrobenzene	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Chloronaphthalene	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Chlorophenol	W-SURF-SLT	240 U	ug/kg	240	960

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Nitrophenol	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Anthracene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(b)fluoranthene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Di-n-octyl phthalate	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Fluorene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachlorobutadiene	W-SURF-SLT	240 U	ug/kg	240	960
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	N-Nitrosodimethylamine	W-SURF-SLT	480 U	ug/kg	480	1900
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Phenanthrene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dinitrophenol	W-SURF-SLT	14 U	ug/L	14	58
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Acenaphthylene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzidine	W-SURF-SLT	96 U	ug/L	96	380
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Di-n-octyl phthalate	W-SURF-SLT	0.96 U	ug/L	0.96	3.8

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Phenanthrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzidine	W-SURF-SLT	1.7E+03 UJ	ug/kg	1700	6900
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(a)pyrene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-chloroethyl)ether	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Dimethyl phthalate	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachlorobenzene	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Pentachlorophenol	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dichlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Chloro-3-methylphenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Nitrophenol	W-SURF-SLT	14 U	ug/L	14	58
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Acenaphthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Anthracene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(k)fluoranthene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Naphthalene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Pentachlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dinitrophenol	W-SURF-SLT	480 UJ	ug/kg	480	1900
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Acenaphthene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Diethyl phthalate	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Fluoranthene	SEDIMENT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachloroethane	W-SURF-SLT	240 UJ	ug/kg	240	960
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4,6-Trichlorophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dimethylphenol	W-SURF-SLT	9.6 U	ug/L	9.6	38
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dinitrotoluene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	3,3'-Dichlorobenzidine	W-SURF-SLT	38 U	ug/L	38	150
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(a)pyrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Dimethyl phthalate	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachlorobenzene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachlorobutadiene	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Pyrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,6-Dinitrotoluene	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Bromophenyl phenyl ether	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(a)anthracene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Dibenzo(a,h)anthracene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	W-SURF-SLT	80 U	ug/kg	80	320

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Pyrene	SEDIMENT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	1,4-Dioxane	W-SURF-SLT	0.020 U	ug/L	0.02	0.08
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,6-Dinitrotoluene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Bromophenyl phenyl ether	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(a)anthracene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachloroethane	W-SURF-SLT	2.9 U	ug/L	2.9	12
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	N-Nitrosodimethylamine	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	1,2,4-Trichlorobenzene	W-SURF-SLT	240 U	ug/kg	240	960
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Nitrophenol	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Acenaphthylene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(k)fluoranthene	W-SURF-SLT	8.8 U	ug/kg	8.8	35

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Butyl benzyl phthalate	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Chrysene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Naphthalene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	1,2,4-Trichlorobenzene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Chloronaphthalene	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(g,h,i)perylene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-chloroethyl)ether	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Chrysene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Phenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	3,3'-Dichlorobenzidine	W-SURF-SLT	4.8E+03 U	ug/kg	4800	19000
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Di-n-butyl phthalate	W-SURF-SLT	480 U	ug/kg	480	1900

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2-Nitrophenol	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Diethyl phthalate	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	W-SURF-SLT	0.19 U	ug/L	0.19	0.77
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Isophorone	W-SURF-SLT	0.96 U	ug/L	0.96	3.8
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	W-SURF-SLT	1.9 U	ug/L	1.9	7.7
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	2,4-Dichlorophenol	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	4-Chloro-3-methylphenol	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Benzo(g,h,i)perylene	W-SURF-SLT	8.8 U	ug/kg	8.8	35
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	W-SURF-SLT	480 UJ	ug/kg	480	1900
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Hexachlorocyclopentadiene	W-SURF-SLT	80 UJ	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Priority Organic Pollutants	Nitrobenzene	W-SURF-SLT	80 U	ug/kg	80	320
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Specific Conductance	W-SURF-SLT	28685	umhos/cm		

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	pH	W-SURF-SLT	7.4			
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	pH	W-SURF-SLT	7.4			
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Specific Conductance	W-SURF-SLT	28685	umhos/cm		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	% Solid	W-SURF-SLT	73.9 A	%	0.1	0.1
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Dissolved Oxygen	W-SURF-SLT	8.4	mg/L		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Sample Depth	W-SURF-SLT	0.2	m		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Sample Depth	W-SURF-SLT	0.2	m		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Dissolved Oxygen	W-SURF-SLT	8.4	mg/L		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Temperature	W-SURF-SLT	18.0	C		
3/20/2017 10:30	Control Site	Santa Rosa Sound near Paradise Point	Control	Nutrients	Temperature	W-SURF-SLT	18.0	C		
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Arsenic	W-FIELD-BK	0.050 U	ug/L	0.05	0.2
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Silver	W-FIELD-BK	0.010 U	ug/L	0.01	0.04
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Copper	W-FIELD-BK	0.31 I	ug/L	0.2	0.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Selenium	W-FIELD-BK	0.20 U	ug/L	0.2	0.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Iron	W-FIELD-BK	30 U	ug/L	30	120

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Sodium	W-FIELD-BK	0.50 U	mg/L	0.5	2
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Zinc	W-FIELD-BK	5.0 U	ug/L	5	20
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Cadmium	W-FIELD-BK	0.020 U	ug/L	0.02	0.08
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Calcium	W-FIELD-BK	0.075 U	mg/L	0.075	0.3
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Aluminum	W-FIELD-BK	3.0 U	ug/L	3	12
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Lead	W-FIELD-BK	0.21	ug/L	0.05	0.2
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Magnesium	W-FIELD-BK	0.040 U	mg/L	0.04	0.16
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Potassium	W-FIELD-BK	0.30 U	mg/L	0.3	1.2
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Nickel	W-FIELD-BK	0.20 U	ug/L	0.2	0.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Metals	Chromium	W-FIELD-BK	0.40 U	ug/L	0.4	1.6
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Fluoride	W-FIELD-BK	0.035 U	mg F/L	0.035	0.1
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	NO2NO3-N	W-FIELD-BK	0.004 U	mg N/L	0.004	0.01
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Organic Carbon	W-FIELD-BK	0.50 U	mg C/L	0.5	1
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Color (true)	W-FIELD-BK	2.5 U	PCU	2.5	6
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Ammonia-N	W-FIELD-BK	0.002 U	mg N/L	0.002	0.005
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Total Alkalinity	W-FIELD-BK	0.65 U	mg CaCO3/L	0.65	2.5
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Turbidity	W-FIELD-BK	0.10 U	NTU	0.1	0.1
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Chloride	W-FIELD-BK	0.20 U	mg Cl/L	0.2	0.5
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	O-Phosphate-P	W-FIELD-BK	0.004 U	mg P/L	0.004	0.01
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Sulfate	W-FIELD-BK	0.20 U	mg SO4/L	0.2	0.5

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Total-P	W-FIELD-BK	0.002 U	mg P/L	0.002	0.005
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Nutrients	Kjeldahl Nitrogen	W-FIELD-BK	0.080 U	mg N/L	0.08	0.2
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Alachlor	W-FIELD-BK	0.057 U	ug/L	0.057	0.23
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Fluridone	W-FIELD-BK	4.0E-04 U	ug/L	0.0004	0.001 6
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Demeton	W-FIELD-BK	0.023 U	ug/L	0.023	0.091
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Fenuron	W-FIELD-BK	0.0080 U	ug/L	0.008	0.032
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Primidone	W-FIELD-BK	0.0080 U	ug/L	0.008	0.032
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Atrazine Desethyl	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Malathion	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Bromacil	W-FIELD-BK	0.038 U	ug/L	0.038	0.15
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Butylate	W-FIELD-BK	0.019 U	ug/L	0.019	0.076
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Chlorpyrifos Ethyl	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Diazinon	W-FIELD-BK	0.0095 UJ	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Acetaminophen	W-FIELD-BK	0.010 U	ug/L	0.01	0.04
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Diuron	W-FIELD-BK	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Ethion	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Fonofos	W-FIELD-BK	0.0095 UJ	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Metalaxyl	W-FIELD-BK	0.038 U	ug/L	0.038	0.15
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Metribuzin	W-FIELD-BK	0.019 U	ug/L	0.019	0.076
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Parathion Methyl	W-FIELD-BK	0.0095 UJ	ug/L	0.0095	0.038

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Simazine	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	MCPP	W-FIELD-BK	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Imidacloprid	W-FIELD-BK	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Linuron	W-FIELD-BK	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Prometon	W-FIELD-BK	0.019 U	ug/L	0.019	0.076
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Triclopyr	W-FIELD-BK	0.010 U	ug/L	0.01	0.04
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Carbamazepine	W-FIELD-BK	4.0E-04 U	ug/L	0.0004	0.0016
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Mevinphos	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	2,4-D	W-FIELD-BK	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Bentazon	W-FIELD-BK	0.0040 U	ug/L	0.004	0.016
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Atrazine	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Azinphos Methyl	W-FIELD-BK	0.019 U	ug/L	0.019	0.076
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Disulfoton	W-FIELD-BK	0.0048 U	ug/L	0.0048	0.019
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Ethoprop	W-FIELD-BK	0.0048 U	ug/L	0.0048	0.019
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Fenamiphos	W-FIELD-BK	0.029 U	ug/L	0.029	0.11
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Metolachlor	W-FIELD-BK	0.057 U	ug/L	0.057	0.23
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Naled	W-FIELD-BK	0.038 U	ug/L	0.038	0.15
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Norflurazon	W-FIELD-BK	0.029 U	ug/L	0.029	0.11
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Parathion Ethyl	W-FIELD-BK	0.019 UJ	ug/L	0.019	0.076
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Sucralose	W-FIELD-BK	0.010 U	ug/L	0.01	0.04

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Atrazine Desisopropyl	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Chlorpyrifos Methyl	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Hexazinone	W-FIELD-BK	0.029 U	ug/L	0.029	0.11
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Phorate	W-FIELD-BK	0.0048 U	ug/L	0.0048	0.019
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Prometryn	W-FIELD-BK	0.019 U	ug/L	0.019	0.076
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Pesticides	Ametryn	W-FIELD-BK	0.0095 U	ug/L	0.0095	0.038
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	W-FIELD-BK	2.9 U	ug/L	2.9	12
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Naphthalene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Pentachlorophenol	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Phenol	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Anthracene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Benzidine	W-FIELD-BK	97 U	ug/L	97	390
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Dimethyl phthalate	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Hexachloroethane	W-FIELD-BK	2.9 U	ug/L	2.9	12
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Phenanthrene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	1,4-Dioxane	W-FIELD-BK	0.020 UY	ug/L	0.02	0.08
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	W-FIELD-BK	9.7 U	ug/L	9.7	39
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Benzo(a)anthracene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	W-FIELD-BK	2.9 U	ug/L	2.9	12
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Chrysene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	W-FIELD-BK	2.9 U	ug/L	2.9	12

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	W-FIELD-BK	1.9 U	ug/L	1.9	7.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Fluorene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2-Chloronaphthalene	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	4-Nitrophenol	W-FIELD-BK	15 U	ug/L	15	58
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Acenaphthylene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	W-FIELD-BK	1.9 U	ug/L	1.9	7.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Fluoranthene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	W-FIELD-BK	1.9 U	ug/L	1.9	7.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	W-FIELD-BK	1.9 U	ug/L	1.9	7.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Benzo(a)pyrene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Diethyl phthalate	W-FIELD-BK	1.9 U	ug/L	1.9	7.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Hexachlorobutadiene	W-FIELD-BK	2.9 U	ug/L	2.9	12
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Isophorone	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	W-FIELD-BK	1.9 U	ug/L	1.9	7.8
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Pyrene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	W-FIELD-BK	15 U	ug/L	15	58
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Acenaphthene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	W-FIELD-BK	2.9 U	ug/L	2.9	12
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	W-FIELD-BK	0.97 U	ug/L	0.97	3.9

Date_Sampled	UDL	Station	Field_Sample_ID	SCH_Group	Component	Matrix	Result	Units_Word_Result	MDL	PQL
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2-Chlorophenol	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	2-Nitrophenol	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	W-FIELD-BK	39 U	ug/L	39	160
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Hexachlorobenzene	W-FIELD-BK	0.97 U	ug/L	0.97	3.9
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	W-FIELD-BK	0.19 U	ug/L	0.19	0.78
3/20/2017 11:56	Blank	Navarre Beach FL0023981	Blank	Priority Organic Pollutants	Nitrobenzene	W-FIELD-BK	1.9 U	ug/L	1.9	7.8
3/20/2017 12:14	Blank	Navarre Beach WWTP Field Blank	Navarre Beach WWTP Field Blank	Overflow	Enterococci-Membrane Filter	W-FIELD-BK	1 U	cfu/100 mL	1	1
3/20/2017 12:14	Blank	Navarre Beach WWTP Field Blank	Navarre Beach WWTP Field Blank	Overflow	Fecal Coliforms-Membrane Filter	W-FIELD-BK	1 U	cfu/100 mL	1	1

EPA End Sheet

The Bioassay of the Navarre Beach WWTF effluent sampled on March 20, 2017, NPDES #FL0023981

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code		NPDES NUMBER										YR/MO/DA						Insp Type	Inspector	Fac Type
1	N	2	5	3	F	L	0	0	2	3	9	8	1	11	12	1	7	0	3	2	0	18 **B**	19 **S**	20 1

Remarks

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The Priority Pollutants Analysis of the Navarre Beach WWTF effluent sampled on March 20, 2017 NPDES #FL0023981

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code		NPDES NUMBER										YR/MO/DA						Insp Type	Inspector	Fac Type
1	N	2	5	3	F	L	0	0	2	3	9	8	1	11	12	1	7	0	3	2	0	18 **X**	19 **S**	20 1

Remarks

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Biological Analyses of the Navarre Beach WWTF effluent sampled on March 20, 2017, NPDES #FL0023981

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code		NPDES NUMBER										YR/MO/DA						Insp Type	Inspector	Fac Type
1	N	2	5	3	F	L	0	0	2	3	9	8	1	11	12	1	7	0	3	2	0	18 **S**	19 **S**	20 1

Remarks

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