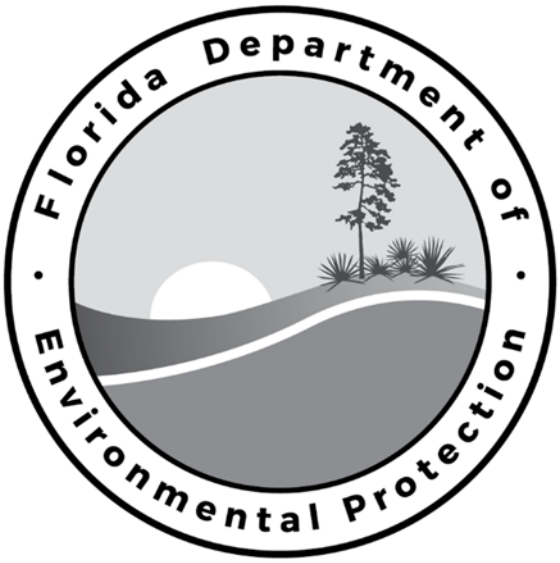


Effluent Quality Assessment of

SR-16 WWTF

St. Johns County

NPDES # FL0043109

Sampled September 28, 2015

March 2016

Biology Program

FDEP Laboratory

Division of Environmental Assessment and Restoration

FDEP Laboratory Quality Manual

NELAC Certification No. E31780

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SR-16 Wastewater Treatment Facility (WWTF), 3000 Industry Center Road, St. Augustine, St. Johns County, Florida, 32084. NPDES #FL0043109.

Facility Overview

SR-16 Wastewater Treatment Facility is a conventional activated sludge wastewater treatment facility. See Appendix B for a description of the facility, summary of permit limits, Administrative Order (AO) and Discharge Monitoring Report (DMR) information.

Methods

Effluent grab samples for toxicity testing, biological and chemical analyses were collected on September 28, 2015. Samples were collected from the EFA-2, WEP-E, WEP-NW and the WEP-SW NPDES sampling points for Outfall D-001 by Sharon Piltz, Jann Gruentzel, Brian Davis and Amy Kalmbacher (FDEP Northeast District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling (see map Appendix A and facility summary Appendix B).

The 96-hour acute definitive toxicity tests and algal growth potential tests were performed following internal DEP SOPs TA07_01, TA07_02, and TA08_01 through TA08_09 (see Appendix B).

Results

Chemistry Results (See Table 1, Table 2, Table 3 and Appendix D)

- The total ammonia concentrations in the grab samples collected and preserved for chemical analysis from the EFA-01, WEP-E, WEP-NW and WEP-SW sampling points were respectively 0.020 mg N/L, 0.32 mg N/L, 0.051 mg N/L and 0.055 mg N/L. Based on the pH, salinity, and temperature of the effluents as collected, the calculated unionized ammonia concentrations were < 0.02 mg/L in each of the samples.
- EFA-2 – Alkalinity, fluoride, total ammonia, total phosphorus, turbidity, nickel and zinc were detected in the effluent at levels that comply with Class III Fresh Water Quality Criteria (62-302.530, F.A.C.) and/or permitted limits. Arsenic, carbonaceous biochemical oxygen demand (CBOD), chromium, iron and total suspended solids (TSS) were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). The specific conductance (1,372 µmho/cm) was greater than the Class III Fresh Water Quality Criteria (62-302.530 (60) F.A.C.); however, due to the absence of a concurrent background specific conductance, it cannot be determined if this is an exceedance.
- WEP-E – Alkalinity, fecal coliforms, fluoride, nickel, total ammonia, total phosphorus and turbidity were detected in the effluent at levels that comply with Class III Fresh Water Quality Criteria (62-302.530, F.A.C.) and/or permitted limits. Arsenic, carbonaceous biochemical oxygen demand (CBOD), iron, nickel, selenium, TSS and zinc were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). Fecal coliforms in the WEP-E sample were detected in an amount that complied with the effluent permit limits. The WEP-E sample fecal coliforms value was lower than the Class III Freshwater Criterion (32-302.500 (6) F.A.C.) daily maximum limit of 800 CFU/100 mL, but compliance with the monthly average limit of 200 CFU/100 mL and the limit of 400 CFU/100 mL in 10% of samples would require additional sampling of WEP-E.
- WEP-NW – Fecal coliforms, fluoride, total ammonia, total phosphorus and turbidity were detected in the effluent at levels that comply with Class III Fresh Water Quality Criteria (62-302.530, F.A.C.) and/or permitted limits. Arsenic, carbonaceous biochemical oxygen demand (CBOD), iron, lead, nickel, selenium and TSS were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). Fecal coliforms in the WEP-NW sample were detected in an amount that complied with the effluent permit limits. The WEP-NW sample fecal coliforms value was lower than the Class III Freshwater Criterion (32-302.500 (6) F.A.C.) daily maximum limit of 800 CFU/100 mL, but compliance with the monthly average limit of 200 CFU/100 mL and the limit of 400 CFU/100 mL in 10% of samples would require additional sampling of WEP-NW.
- WEP-SW – Fecal coliforms, fluoride, iron, total ammonia, total phosphorus and turbidity were detected in the effluent at levels that comply with Class III Fresh Water Quality Criteria (62-302.530, F.A.C.) and/or permitted limits. Arsenic, carbonaceous biochemical oxygen demand (CBOD), lead, nickel and TSS were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL).

- Total ammonia was detected in the field blank.

Algal Growth Potential (See Table 4 and Appendix D)

- Each Algal Growth Potential test was performed with the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum.*
- The Algal Growth Potential (AGP) was 247 mg dry wt/L for EFA-2, 141 mg dry wt/L for WEP-E, 4.13 mg dry wt/L for WEP-NW and 5.52 mg dry wt/L for WEP-SW.
- Raschke and Schultz (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 results strongly suggest nutrient enrichment in the EFA-2 and WEP-E effluent. The analytical chemistry suggests that the EFA-2 effluent is phosphorus limited and the WEP-E effluent is nitrogen limited. Although the ratios of inorganic nitrogen to phosphorus could not be determined in the effluents from WEP-NW and WEP-SW, the ratios of total nitrogen and total phosphorus suggest that the WEP-NW and WEP-SW effluents are nitrogen limited (Miller et al. 1978).

Toxicity Test Results (See Table 2 and Appendix D)

- Tests were performed September 29 – October 3, 2015. Due to difficulty obtaining *Cyprinella leedsi* test organisms (permitted species) in sufficient number to perform the multiple bioassays, prior approval was obtained from the FDEP Northeast District to use *Pimephales promelas* as the fish test species. Samples for bioassay testing were not collected from the EFA-2 effluent.

WEP-E

Ceriodaphnia dubia 96-hour acute definitive bioassay – LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours

Pimephales promelas 96-hour acute definitive bioassay – LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours

WEP-NW

Ceriodaphnia dubia 96-hour acute definitive bioassay – LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours

Pimephales promelas 96-hour acute definitive bioassay – LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours

WEP-SW

Ceriodaphnia dubia 96-hour acute definitive bioassay – LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours

Pimephales promelas 96-hour acute definitive bioassay – LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours

*NOTE: In a 96-hour acute definitive test of 100% effluent, mortality of <20% provides confidence that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Rule 62-302.500 (1) (a) 4, F.A.C.). Mortality between 20-50% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% indicates that the effluent fails to meet the minimum requirement to discharge to waters of the state (Rule 62-4.244(3) (a), F.A.C.).

- The bioassay samples were not acutely toxic to the test organisms.

Conclusion

The effluent samples collected from the WEP-E, WEP-NW and WEP-SW NPDES sampling points for this facility on September 28, 2015, were not acutely toxic to either test species during the 96-hour acute definitive bioassays. The AGP results in the EFA-2 and WEP-E effluents were significantly greater than the "problem" threshold for fresh receiving waters suggesting that nutrient enrichment may be an issue. It could not be determined if the specific conductance of the EFA-2 effluent was an exceedance due to absence of background specific conductance. Additional Effluent water quality samples collected on September 28, 2015, did not exceed any applicable water quality standards or any permit conditions.

For additional information concerning this sampling event, including bioassay bench sheets and SRT data, please contact Diane.Power@dep.state.fl.us and/or Joseph.Faircloth@dep.state.fl.us.

Literature Cited

Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.

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USEPA. 2002. Methods for measuring the acute toxicity of effluents to freshwater and marine organisms. 5th edition. EPA-821-R-02-012.

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

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

State Road 16 WWTF	Units	Class III Criteria	Effluent Permit Limits	EFA-2	Effluent Permit Limits WEP-E, NW and SW	WEP-E	WEP-NW	WEP-SW
Sample Depth	m	-	-	0.3	-	0.3	0.3	0.3
Temperature	C	-	-	29.5	Report	26.0	25.2	25.2
pH	SU	6.0 - 8.5	-	7.04	Report	7.41	7.45	7.57
Specific Conductance	umhos/cm	≤ 1,275	-	1372 e	-	1210	896	774
Salinity	ppth	-	-	0.6 c	-	0.6 c	0.4 c	0.4 c
Dissolved Oxygen	% saturation	≥ 34%	Report	71.8	-	-	-	-
Dissolved Oxygen	mg/L	-	Report	5.46	Report	-	-	-
Total Residual Chlorine	mg/L	-	≤ 0.5	-	-	< 0.03 QUd	< 0.03 QUd	< 0.03 QUd

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

c - Value is calculated

d- Measurement taken in the FDEP laboratory

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

Q - Sample held beyond normal holding time

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

Table 2. Effluent limits, Class III Freshwater Criteria and analytical water chemistry data

State Road 16 WWTF	Units	Class III Criteria	Effluent Permit Limits	EFA-2	Effluent Permit Limits WEP-E, NW and SW	WEP-E	WEP-NW	WEP-SW
Ortho-phosphate	mg P/L	-	-	0.62	-	0.70	0.62	0.50
Total Phosphorus	mg P/L	-	≤ 6	0.76	≤ 2	0.75	0.66	0.56
Total Ammonia	mg N/L	-	≤ 3.2	0.020 F	Report	0.32 F	0.051 F	0.055 F
Un-ionized Ammonia	mg N/L	≤ 0.02 s	-	< 0.02 c	-	< 0.02 c	< 0.02 c	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	13	-	1.6	0.004 U	0.004 U
Total Kjeldahl Nitrogen	mg N/L	-	-	0.93	-	1.5	1.3	1.0
Organic Nitrogen	mg N/L	-	-	0.91 c	-	1.2 c	1.2 c	0.9 c
Total Nitrogen	mg N/L	-	Report	14 c	≤ 6	3.1 c	1.3 c	1 c
Total Organic Carbon	mg C/L	-	-	6.5 A	-	20	30	23
Chlorophyll *a* - Corrected	ug/L	-	-	0.55 U	-	3.3	1.5 I	1.0 I
Phaeophytin	ug/L	-	-	0.40 U	-	1.4	0.40 U	0.40 U
CBOD, 5 day, N - inhibited	mg/L	-	-	1.6 IJ	≤ 10	1.5 IJ	1.4 IJ	1.3 IJ
Total Suspended Solids	mg/L	-	≤ 60	2 I	≤ 10	2 U	2 I	2 I
Turbidity	NTU	< 29 t	-	1.2	-	1.2	1.7	1.1
Color (true)	PCU	-	-	2.6 I	-	190	360	250
Alkalinity	mg CaCO3/L	≥ 20	-	90 A	-	123	-	-
Chloride	mg Cl/L	-	-	170 A	-	170	120	110
Fluoride	mg F/L	≤ 10.0	-	0.64	-	0.55	0.46	0.40
Sulfate	mg SO4/L	-	-	260 A	-	220	130	92
Microbiology								
Fecal Coliforms [1]	cfu/100 mL	≤ 400	≤ 800	2.0 U	-	420	780 B	380
Toxicity (LC50)								
Bioassay - Water flea *(Ceriodaphnia dubia)*	LC50%	≥ 100	≥ 100	-	≥ 100	> 100	> 100	> 100
Bioassay - Fish *(Pimephales promelas)*	LC50%	≥ 100	≥ 100	-	≥ 100	> 100	> 100	> 100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
s - Single sample
t - Shall not exceed 29 NTUs above background
x - If 10 or fewer samples are taken within a month, the single sample limit is 400 CFU (62-302.530(6), F.A.C.)
A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptance range
F - Analyte was detected in both sample and field blank (0.003 I mg/L)
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
U - Material analyzed for but not detected; value reported is the method detection limit
1 - Fecal coliform analysis performed by Columbia Analytical Services, Jacksonville, FL

Table 3. Effluent limits, Class III Freshwater Criteria and analytical metals data

State Road 16 WWTF	Units	Class III Criteria	Effluent Permit Limits	EFA-2 Class III Criteria	EFA-2	WEP-E Class III Criteria	WEP-E	WEP-NW Class III Criteria	WEP-NW	WEP-SW Class III Criteria	WEP-SW
Hardness	mg CaCO3/L	-	-	-	334 c	-	295 c	-	213 c	-	181 c
Aluminum	ug/L	-	-	-	117	-	71	-	138	-	82
Arsenic	ug/L	≤ 50	-	-	0.28 I	-	0.42 I	-	0.49 I	-	0.43 I
Cadmium	ug/L	-	-	≤ 0.661 b	0.050 U	≤ 0.603 b	0.050 U	≤ 0.474 b	0.050 U	≤ 0.42 b	0.050 U
Calcium	mg/L	-	-	-	69.0	-	58.4	-	42.7	-	38.3
Chromium, Total [2]	ug/L	-	-	≤ 231 b	0.39 I	≤ 209 b	0.30 U	≤ 160 b	0.30 U	≤ 140 b	0.30 U
Copper	ug/L	-	-	≤ 26.1 b	0.50 U	≤ 23.5 b	0.50 U	≤ 17.8 b	0.50 U	≤ 15.5 b	0.50 U
Iron	ug/L	≤ 1,000	-	-	31 I	-	33 I	-	120 I	-	280
Lead	ug/L	-	-	≤ 14.8 b	0.20 U	≤ 12.6 b	0.20 U	≤ 8.34 b	0.34 I	≤ 6.77 b	0.36 I
Magnesium	mg/L	-	-	-	39.2	-	36.2	-	25.9	-	20.7
Nickel	ug/L	-	-	≤ 145 b	2.11	≤ 130 b	1.35	≤ 99 b	0.98 I	≤ 86.1 b	0.66 I
Potassium	mg/L	-	-	-	15.2	-	13.8	-	10.7	-	10.0
Selenium	ug/L	≤ 5.0	-	≤ 5.0	0.20 U	≤ 5.0	0.21 I	≤ 5.0	0.21 I	≤ 5.0	0.20 U
Silver	ug/L	≤ 0.07	≤ 0.07 s	≤ 0.07	0.025 U	≤ 0.07	0.025 U	≤ 0.07	0.025 U	≤ 0.07	0.025 U
Sodium	mg/L	-	-	-	140	-	132	-	98.2	-	77.7
Zinc	ug/L	-	-	≤ 333 b	39	≤ 300 b	16 I	≤ 228 b	5.0 U	≤ 198 b	5.0 U

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

b - Value is calculated based on hardness, (62-302.530(3))

c - Value is calculated

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

2 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III

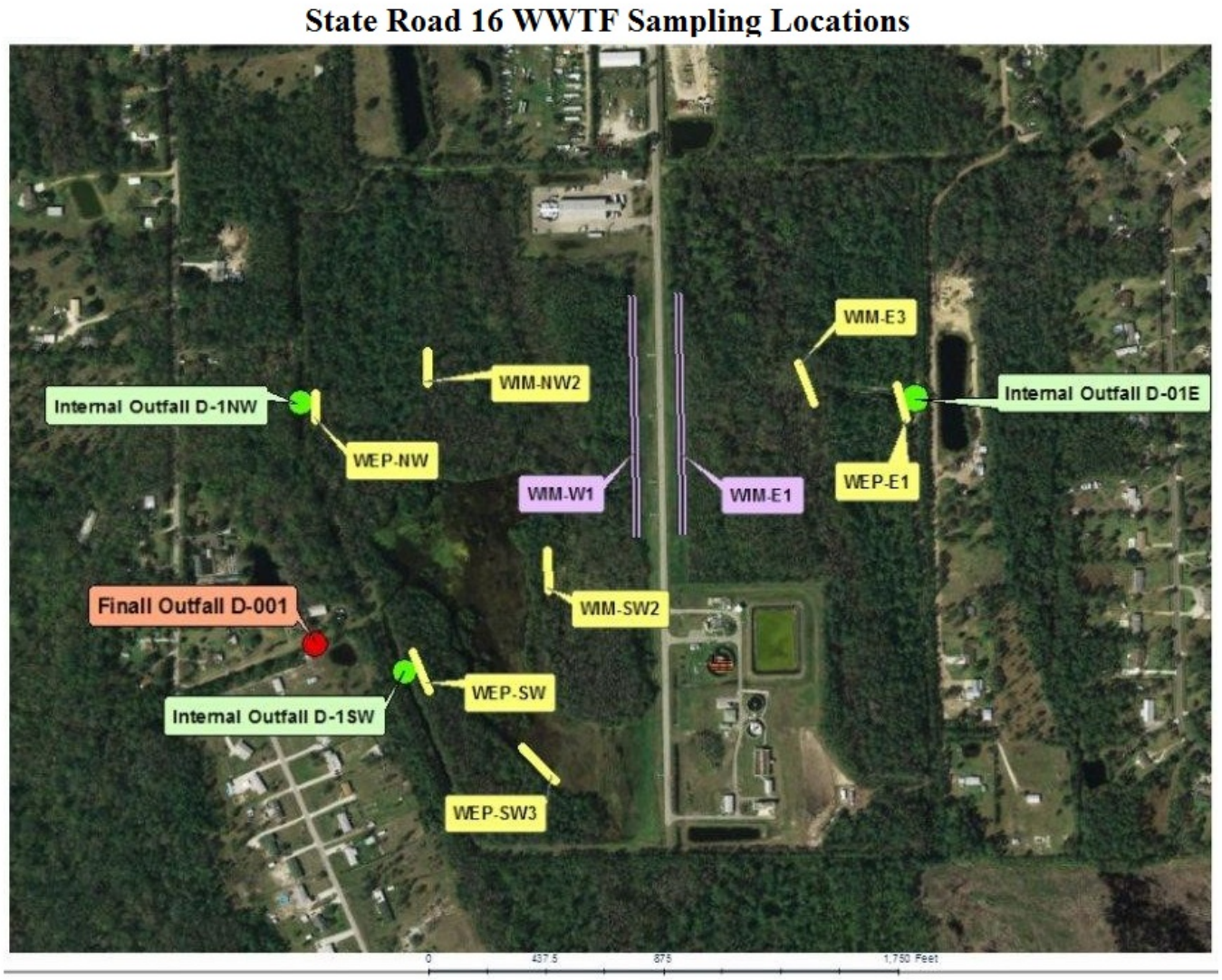
Table 4. Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN), ortho-phosphate (OP), total nitrogen (TN) and total phosphorus (TP) limitation and ratios of nitrogen to phosphorus

State Road 16 WWTF								
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**
EFA-2	*Pseudokirchneriella subcapitata*	247	494.8 ± 99.0	266.6 ± 53.3	529.3 ± 105.9	326.8 ± 65.4	21	18.3
WEP-E	*Pseudokirchneriella subcapitata*	141	73 ± 14.6	301 ± 60.2	117.8 ± 23.6	322.5 ± 64.5	2.7	4.1
WEP-NW	*Pseudokirchneriella subcapitata*	4.13	not applicable [3]	266.6 ± 53.3	not applicable [3]	283.8 ± 56.8	not applicable [3]	not applicable [3]
WEP-SW	*Pseudokirchneriella subcapitata*	5.52	not applicable [3]	215 ± 43.0	not applicable [3]	240.8 ± 48.2	not applicable [3]	not applicable [3]

3 - non-detect in the analytical chemistry; predictions could not be made and N:P ratios could not be calculated.

Appendix A

Facility Map



Appendix B

Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Herndon Sims	**Contact Number:** (904) 256-1612
Facility Name (as it appears on permit): SR-16 WWTF	**Former Names:** N/A
NPDES Permit Number: FL0043109	**Permit Expiration Date:** July 18, 2016
Physical Address: 3000 Industry Center Road, St. Augustine FL 32084	
District: Northeast District	**County:** St. Johns
Function of Facility: Conventional activated sludge domestic wastewater treatment facility	
Facility Type: Domestic Wastewater	**Permitted Capacity (MGD):** 1.5 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 1.14 MGD: June 2014 – May 2015	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): 0.74 MGD: June 2014 – May 2015	
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):

Outfall D-001:

EFA-2: Sample point immediately after disinfection and prior the reuse system R-002
CAL-E1: Calculated value at WEP-E1
CAL-SW: Calculated value at WEP-SW1
CAL-NW: Calculated value at WEP-NW1
WIM-E1: Sample station located immediate vicinity of the point of discharge to the eastern wetland system
WIM-E3: Sample station located in the approximate geography middle of the of eastern wetland system
WEP-E1: Sample station located in the vicinity of the point of discharge from the eastern wetland system to the perimeter ditch
WIM-W1: Sample station located immediate vicinity of the point of to both the northwestern and southwestern wetland systems
WIM-NW3: Sample station located in the approximate geography middle of northwestern wetland system
WEP-NW: Sample station located in the vicinity of the point of discharge from northwestern wetland system to the perimeter ditch
WIM-SW2: Sample point at the wetland internal monitoring point SW2, in the approximate geographic middle of southwestern wetland system
WIM-SW3: Sample point at the wetland internal monitoring point SW3, near to the point discharge from southwestern wetland system
WEP-SW: Sample station located in the vicinity of the point of discharge from southwestern wetland system to the perimeter ditch

Outfall R-001:

EFA-1: Sample point immediately after disinfection (high-level disinfection) and prior reuse of reclaimed water
EFB-1: Sample point after filtration and prior to disinfection
RWS-A: Sample point immediately after disinfection (high-level disinfection) and prior reuse of reclaimed water
CAL-1: Calculated value

Description of Permitted Outfall(s):

Surface Water Discharge D-001 (Hydrologically Altered and Man-made Treatment Wetland and Cowan Swamp):

An existing 0.50 MGD annual average daily flow (AADF) permitted capacity discharge to 66 – acres hydrologically altered and man-made treatment wetlands which are considered to be beneficial reuse (R – 002).

Water/effluent in the hydrologically altered and man-made treatment wetlands drains to a constructed perimeter ditch which connects to Cowan Swamp (Class III fresh waters, (WBID# 2493)) through outfall D-001. The outfall D-001 is located approximately at latitude 29 o 54' 15" N, longitude 81 o 23' 11" W.

The 66 – acres hydrologically altered and man-made treatment wetlands is divided in three separated cells (eastern, northwestern, southwestern cells) with three internal outfalls named: D – 01E (for the eastern cell), D – 1NW (for northwestern cell), and D – 1SW (for southwestern cell).
The wetland system serves as discharge alternative (backup) to the public access reuse system R-001.

Land Application R-001 (Slow – Rate Public Access Land Application):

An existing 1.32 MGD annual average daily flow (AADF) permitted capacity slow-rate public access irrigation system (R-001) located approximately at latitude 29o 58' 45" N, longitude 81o 28' 30" W. The slow-rate public access system consists of the landscape Area, 80 acres and golf course, 129 acres.

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

Wastewater Treatment System:
An existing 1.50 million gallon per day (MGD) annual average daily flow (AADF) design capacity conventional activated sludge domestic wastewater treatment facility (WWTF) consisting of the following process units:
-A preliminary treatment (headworks) structure including a mechanically-cleaned bar screen, a manually-cleaned bar screen, a 12-foot diameter forced vortex grit collector, two (2) 10-hp grit pumps; and a grit concentrator;

-Two (2) aeration basins with a total volume of approximately 67,500 cubic feet, each basin contains five (5) air diffuser banks and fifty diffusers per bank;
-Two (2) center feed, 60-foot diameter secondary clarifiers with 14 foot side water depth and approximately 2830 Square foot (ft2)surface areas;

-Three (3) Lamson centrifugal blowers (Two in 125-hp and one in 75-hp.);

-Three (3) continuous backwash sand filtration units, with a total surface filter area of 300 ft_2;

-Two (2) baffled chlorine contact chambers with a total volume of approximately 5,220 cubic feet (ft_3);

-One (1) chlorination system;

-One (1) 0.178 million gallon (Mgal) aerobic digester;

-One (1) on – site reclaimed water pump station, one (1) reject water tank (0.80 Mgal), and one (1) lined reject water pond (0.70 Mgal); one 2.0 MG reclaimed water storage tank and a reclaimed water pump station with three (3) 900 gpm pumps (two (2) duty and one (1) in stand-by) located on-site of the new Northwest WWTF; one in-line reuse booster pump station (booster PS), which includes two (2) vertical turbine can-mounted pumps (Each pump has design points of 207 ft (90 psi) TDH at 580 gpm, 40 hp and equipped with variable frequency drive (VFD)); one (1) 40-kW emergency generator; electrical equipment; and control system, located approximately 6.5 miles northwest of the SR 16 WWTF on the south side of the SR 16 and northwest of the Turnbull Drive subdivision; and

-One (1) on – site effluent pump station which is used to pump effluent to the hydrologically altered and man – made treatment wetlands.

The primary method of disposal is reuse of reclaimed water via spray irrigation to public access reuse sites. The filtered and chlorinated reclaimed water (high level disinfection) shall be conveyed to the reuse system at World Golf Village. The hydrologically altered and man-made wetland systems serve as backup to the public access irrigation system.

The biosolids are partially digested and transported to Anastasia Island WWTF for dewatering and transported to a biosolids management facility (RMF) for further treatment and final disposal.

Modification of the Wastewater Treatment System:

-a new magnetic flow meter, vertical turbine pumps in chlorine contact chambers, upgrade piping, valves of the reclaimed water distribution system to the wetlands, belt filter press, reuse storage tanks, pump station and pipelines.

PART I: Continued

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

Surface Water Discharge D-001: Hydrologically Altered Wetland (R-002) to Cowan Swamp (D-001)

AO expired August 2013 for TN & TP; CO expired August 1, 2015 for TP

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max	0.5	Annual Average	Continuous	Recording Flow Meter with Totalizer	EFA – 2	
		Max	Report	Monthly Average				
BOD, Carbonaceous 5-day, 20ºC	mg/L	Max	20.0	Annual Average	Weekly	16-hr FPC	EFA – 2	
			25.0	Monthly Average				
			40.0	Weekly Average				
			60.0	Single sample				
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	Weekly	16-hr FPC	EFA – 2	
			30.0	Monthly Average				
			45.0	Weekly Average				
			60.0	Single sample				
Coliform, Fecal	#/100mL	Max	200	Annual Average	Weekly	Grab	EFA – 2	
		Max	200	Monthly Geometric Mean				
		Max	800	Single Sample				
pH	s.u.	Max	6.0	Single Sample	Daily (5days/week)	Meter	EFA – 2	
		Min	8.5	Single Sample				

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Daily (5days/week)	Meter	EFA – 2	
Nitrogen, Total as N	mg/L	Max	25.0	Annual Average	Weekly	16-hr FPC	EFA – 2	
			Report	Monthly Average				
			Report	Weekly Average				
			Report	Single sample				
Ammonia, Total as N	mg/L	Max	Report	Annual Average	Weekly	16-hr FPC	EFA – 2	
			2.0	Monthly Average				
			2.4	Weekly Average				
			3.2	Single sample				
Phosphorus, Total (as P)	mg/L	Max	3.0	Annual Average	Weekly	16-hr FPC	EFA – 2	
			3.75	Monthly Average				
			4.5	Weekly Average				
			6.0	Single sample				
Total Recoverable, Silver	µg/L	Max	0.07	Single Sample	Monthly	16-hr FPC	EFA – 2	

Wetlands Water Quality Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Temperature, Water	DEG ºC	Max	Report	Single Sample	Monthly	Field Thermometer	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Dissolved Oxygen	mg/L	Min	Report	Single Sample	Monthly	Meter	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
pH	S.U.	Range	Report	Single Sample	Monthly	Meter	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Specific conductance	µmhos/cm	Max	Report	Single Sample	Monthly	Meter	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Color	pt-co	Range	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
$CBOD_5$	mg/L	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Total Suspended Solids	mg/L	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Ortho-Phosphate	mg/L	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Total Phosphorous, as P	mg/L	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Total Kjeldahl Nitrogen, as N	mg/L	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Total Ammonia, as N	mg/L	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Nitrite + Nitrate, as N	mg/L	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Fecal Coliform	#/ 100mL	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Water Level at Samp. Collection Time	Feet	Max	Report	Single Sample	Monthly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Sulfate (SO_4), as S	mg/L	Max	Report	Single Sample	Quarterly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Chlorophyll-A	MG/L	Max	Report	Single Sample	Quarterly	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Benthic Macroinvertebrates	Yes or No (Yes = 1 No= 0)	-	Report	Single Sample	Semi-Annually	Grab	WIM – E1 WIM – W1 WIM – E3 WIM – NW3 WIM – SW2 WIM – SW3	

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Herbaceous Vegetation -- Line Intercept Method	Yes or No (Yes = 1 No= 0)	-	Report	Single Sample	Semi-Annually	Line Intercept Method	WIM – E1 WIM – W1 WIM – E3 WIM – NW3 WIM – SW2 WIM – SW3	
Metals (Hg, Pb, Cd, Cu, Zn, Fe, Ni, Ag)	µg/L	Max	Report	Single Sample	Annually	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Sediment Sulfide (S^{2-}), as S	mg/L	Max	Report	Single Sample	Annually	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Sediment -Phosphorous, Total as P	mg/L	Max	Report	Single Sample	Annually	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Sediment - Metals (Hg, Pb, Cd, Cu, Zn, Fe, Ni, Ag)	µg/L	Max	Report	Single Sample	Annually	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	
Mosquitoes	Yes or No (Yes = 1 No= 0)	-	Report	Single Sample	Annually (One a year between April and October)	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW2 WIM – SW3	See. I.A.23
Woody Vegetation	Yes or No (Yes = 1 No= 0)	-	Report	Single Sample	Annually	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW2 WIM – SW3	

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Threatened and Endangered Plant and Animal Species List	Yes or No (Yes = 1 No= 0)	-	Report	Single Sample	Annually	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW2 WIM – SW3	See I.A.14
Non-metallic Priority Pollutants	mg/L	Max	Report	Single Sample	Bi - Annually y (One every 2 years)	Grab	WIM – E1 WIM – E3 WIM – W1 WIM – NW3 WIM – SW3	

Discharge From Wetland To Cowan Swamp Monitoring:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
BOD, Carbonaceous 5-day, 20ºC	MG/L	Max	5.00	Annual Average	Weekly *(During Discharge)*	Grab	WEP – E1 WEP – SW WEP – NW	
			6.25	Monthly Average				
			7.50	Weekly Average				
			10.00	Single Sample				
Total Suspended Solids	MG/L	Max	5.00	Annual Average	Weekly *(During Discharge)*	Grab	WEP – E1 WEP – SW WEP – NW	
			6.25	Monthly Average				
			7.50	Weekly Average				
			10.00	Single Sample				
pH	SU	Range	Report	Single Sample	Daily *(During Discharge)*	Meter	WEP – E1 WEP – SW WEP – NW	

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Stage (Water Depth)	Feet	Max	Report	Single Sample	Daily *(During Discharge)*	Stage Recorder	WEP – E1 WEP – SW WEP – NW	
Total Nitrogen, as N	MG/L	Max	3.00	Annual Average	Weekly *(During Discharge)*	Grab	WEP – E1 WEP – SW WEP – NW	
			3.75	Monthly Average				
			4.50	Weekly Average				
			6.00	Single Sample				
Ammonia, as N	MG/L	Max	Report	Single Sample	Weekly *(During Discharge)*	Grab	WEP – E1 WEP – SW WEP – NW	
Unionized ammonia, as N	MG/L	Max	0.024	Single Sample	Weekly *(During Discharge)*	Calculated	CAL – E1 CAL – SW CAL – NW	See.I.A.11
Total Phosphorous, as P	MG/L	Max	1.00	Annual Average	Weekly *(During Discharge)*	Grab	WEP – E1 WEP – SW WEP – NW	
			1.25	Monthly Average				
			1.50	Weekly Average				
			2.00	Single Sample				
Dissolved Oxygen	mg/L	Min	Report	Single Sample	Annually	Meter	WEP – E1 WEP – SW WEP – NW	See.I.A.12
Temperature , Water	DEC. C	Max	Report	Single Sample	Annually	Meter	WEP – E1 WEP – SW WEP – NW	See.I.A.12
Acute Whole Effluent Toxicity, 96-hour LC50 (*Ceriodaphnia dubia*)	percent	Min	100	Single Sample	At least once every permit cycle (every five years)	Grab	WEP – E1 WEP – SW WEP – NW	See.I.A.22
Acute Whole Effluent Toxicity, 96-hour LC50 (*Cyprinella leedsi*)	percent	Min	100	Single Sample	At least once every permit cycle (every five years)	Grab	WEP – E1 WEP – SW WEP – NW	See.I.A.22

Reuse and Land Application Systems:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow to Reuse System R – 001	MGD	Max	1.32	Annual Average	Continuous	Recording Flow Meter with Totalizer	EFA – 1	
		Max	Report	Monthly Average				
BOD, Carbonaceous 5-day, 20ºC	mg/L	Max	20.0	Annual Average	Weekly	16-hour flow proportioned composite	EFA – 1	
		Max	30.0	Monthly Average				
		Max	45.0	Weekly Average				
		Max	60.0	Single Sample				
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Daily 5 days/week	Grab	EFB – 1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	Daily 5 days/week	Grab	EFA – 1	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	Monthly	Calculated	CAL – 1	
pH	s.u.	Min	6.0	Single Sample	Continuous	Meter	EFA – 1	

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
		Max	8.5	Single Sample				
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.7	Single Sample	Continuous	Meter	EFA – 1	
Total Nitrogen, as N	mg/L	Max	Report	Single Sample	Monthly	16-hour flow proportioned composite	EFA – 1	
Total Phosphorus, as P	mg/L	Max	Report	Single Sample	Monthly	16-hour flow proportioned composite	EFA – 1	
TSS – Meter	mg/L	Max	Report	Single Sample	Continuous	Meter	EFB – 1	
Primary Drinking Water Standards	mg/L	Max	Report	Single Sample	Annually	24-hour flow proportioned composite	RWS – A	
Secondary Drinking Water Standards	mg/L	Max	Report	Single Sample	Annually	24-hour flow proportioned composite	RWS – A	
Giardia	cysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA – 1	
Cryptosporidium	oocysts/ 100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA – 1	

Other Limitations and Monitoring (Influent):

			Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow, Through the WWTF	MGD	Max	1.32	Annual Average	Daily (7days/wk)	Calculated	CAL – 1	
		Max	Report	Monthly Average				
		Max	Report	Quarterly Average (Three months average daily flow (TMDF))				
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	CAL – 1	
BOD, Carbonaceous 5-day, 20ºC (Influent)	mg/L	Max	Report	Single Sample	Weekly	16-hr FPC	INF – 1	
		Max	Report	Monthly Average				
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	Weekly	16-hr FPC	INF – 1	
		Max	Report	Monthly Average				

PART I: Continued

Receiving Waters:	**Classification (indicate whether fresh or marine):**
St. Johns River	Fresh water

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

Routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent.

Monitoring Frequency:

The toxicity tests shall be conducted once per permit cycle and approximate 6 to 12 months prior to the expiration date of the permit when discharge from the wetlands exceeds 0.10 MGD monthly average daily flow.

Sampling Requirements:
All tests shall be conducted on a single grab sample of final effluent.

Test Requirements:

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent.
(2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, *Ceriodaphnia dubia*, and the bannerfin shiner, *Cyprinella leedsi*, concurrently.
(3) All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.
(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.):
AO 148 NE was issued July 2011 for total nitrogen and total phosphorous (monthly average, weekly average and maximum single sample limits). The interim limit for total nitrogen was 2.0 mg/L (Ann. Avg.), 6.0 mg/L (Mo. Avg,), 8.0 mg/L (Wkly. Avg.) and 12.0 mg/L (Single Sample).

The interim limit for total phosphorous was 1.0 mg/L (Ann. Avg.), 2.0 mg/L (Mo. Avg,), 3.0 mg/L (Wkly. Avg.) and 4.0 mg/L (Single Sample). These limits were for outfalls WEP-NW, WEP-SW and E1.
The AO interim limits expired August 31, 2013.

CO 12-1797 was issued December 2012 for exceeding the total phosphorous (Annual Average) permit limit of 1 mg/L in outfall WEP-NW and WEP-SW**.** The interim limit was 2.0 mg/L (Ann. Avg. and Mo. Avg,), 3.0 mg/L (Wkly. Avg.) and 4.0 mg/L (Single Sample). Compliance with the limits also requires the facility to submit quarterly progress reports as required by AO 148 NE. All corrective actions were required to be completed on or before August 1, 2015.

Facility Mixing Zone Details (if applicable): NA

List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year:			
Date	Parameter and Units	Result	Limit
1/31/2014	Nitrogen, Total (mg/L) (Wkly Avg) Outfall: 01E-1	5.7	4.5
2/28/14	Solids, Total Suspended (mg/L) (Mo Avg) Outfall: 01E-1	6.8	6.25
9/30/14	Nitrogen, Total (mg/L) (Mo Avg) Outfall: NW-1	4.56	3.75
	Nitrogen, Total (mg/L) (Max) Outfall: NW-1	6.6	6.0
11/30/14	Nitrogen, Total (mg/L) (Max) Outfall: SW-1	6.1	6.0
12/31/2014	Nitrogen, Total (mg/L) (Mo Avg) Outfall: NW-1	4.04	3.75
	Nitrogen, Total (mg/L) (Wkly Avg) Outfall: NW-1	6.8	6.0
1/31/15	Nitrogen, Total (mg/L) (Mo Avg) Outfall: NW-1	4.8	3.75
	Nitrogen, Total (mg/L) (Mo Avg) Outfall: NW-1	7.3	3.75
4/30/15	Nitrogen, Total (mg/L) (Mo Avg) Outfall: (01E-1)	4.28	3.75
	CBOD, 5 Day (mg/L) (Mo Avg) Outfall: (01E-1)	7.08	6.25

Describe previous FYI and WQBEL study:
No FYI sampling has been conducted.
No WQBEL study on file.
The hydrologically altered and man-made wetland serves as a backup discharge to the public reuse system R-001. The wetland is used to treat reclaimed water to AWT levels before discharging to Cowan Swamp.

Describe previous or current Enforcement Actions (including WLs):
CO 12-1797 was issued for exceeding the total phosphorous annual average.

Describe any violations or problems noted in previous inspection:
The last inspection was conducted September 2011. The facility was in-compliance.

Discuss whether DMR trends within previous five years are improving or declining:
During the past five years, the facility was having problems meeting the TN, TP, Flow TSS and CBOD permit limits. The facility has been meeting the TP, Flow and TSS permit limits within the last couple of years. In 2014 and 2015, the facility has not consistently met the weekly, monthly and maximum TN limits. Only one CBOD exceedance was noted in 2015. Based on the DMR trends, the facility may have problems meeting the TN limits, consistently.

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):
Reuse is the primary disposal for the effluent. The facility is not having any problems with meeting the reuse permit limits.

PART II: Sampling Event Information

Date(s) sample collected:	**Sampler(s):**
Temperature (Deg C):	**pH (SU):**
Dissolved Oxygen (mg/L):	**Conductivity (umhos/cm):**
Total Residual Chlorine (mg/L):	**Total Residual Chlorine - after Disinfection (mg/L):**
Method of Chlorination:	**Method of De-chlorination:**

Flow During Sample Collection for each outfall(MGD):

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):

Description of type of Discharge:
☐ **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

FDEP'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 (FDEP SOPs). Methods for all analyses are on file at the FDEP Central 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 FDEP SOPs. The results from these analyses were compared with Water Quality Criteria (62-302, F.A.C.) and facility permit limits.

(3) Toxicity Bioassays

Greater than 50% mortality in an acute toxicity test may constitute an exceedance of 62-302.500(1)a and/or facility permit limits. A 25% inhibition concentration (IC25) is the effluent concentration causing a 25% reduction in a biological response such as biomass or reproduction when compared to a control population. An IC25 of less than 100% in a chronic test may constitute exceedances of 62-302.530(20), 62-302.530(61) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of 62-302.530(61) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

(4) Bacteriological Testing

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

The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP in a low salinity sample under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of $\pm$ 20%. When the ratio of nitrogen to phosphorus (N:P) is less than 10:1, nitrogen limitation of algal production is likely. When the N:P ratio is 20:1 or greater, phosphorus limitation is likely (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*.

(7) 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

Chemical analysis of effluent

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:10	SR 16 EFA-2	AGP/LN	Algal Growth Potential	247	mg DryWt/L	0.300	0.900
9/28/2015 10:10	SR 16 EFA-2	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.6 IJ	mg/L	0.20	2.0
9/28/2015 10:10	SR 16 EFA-2	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40 U	ug/L	0.40	1.2
9/28/2015 10:10	SR 16 EFA-2	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.55 U	ug/L	0.55	1.7
9/28/2015 10:10	SR 16 EFA-2	Overflow	Fecal Coliforms-Membrane Filter	2.0 U	cfu/100 mL	2.0	2.0
9/28/2015 10:10	SR 16 EFA-2	Metals	Nickel	2.11	ug/L	0.25	1.0
9/28/2015 10:10	SR 16 EFA-2	Metals	Lead	0.20 U	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Metals	Arsenic	0.28 I	ug/L	0.25	1.0
9/28/2015 10:10	SR 16 EFA-2	Metals	Calcium	69.0	mg/L	0.075	0.30
9/28/2015 10:10	SR 16 EFA-2	Metals	Magnesium	39.2	mg/L	0.040	0.16
9/28/2015 10:10	SR 16 EFA-2	Metals	Chromium	0.39 I	ug/L	0.30	1.2
9/28/2015 10:10	SR 16 EFA-2	Metals	Zinc	39	ug/L	5.0	20
9/28/2015 10:10	SR 16 EFA-2	Metals	Sodium	140	mg/L	0.50	2.0
9/28/2015 10:10	SR 16 EFA-2	Metals	Potassium	15.2	mg/L	0.30	1.2
9/28/2015 10:10	SR 16 EFA-2	Metals	Copper	0.50 U	ug/L	0.50	1.0
9/28/2015 10:10	SR 16 EFA-2	Metals	Antimony	0.25 U	ug/L	0.25	1.0
9/28/2015 10:10	SR 16 EFA-2	Metals	Iron	31 I	ug/L	30	120
9/28/2015 10:10	SR 16 EFA-2	Metals	Selenium	0.20 U	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Metals	Cadmium	0.050 U	ug/L	0.050	0.20
9/28/2015 10:10	SR 16 EFA-2	Metals	Silver	0.025 U	ug/L	0.025	0.10
9/28/2015 10:10	SR 16 EFA-2	Metals	Aluminum	117	ug/L	5.0	20
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Color (true)	2.6 I	PCU	2.5	6.0
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Total-P	0.76	mg P/L	0.0050	0.050
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Total Alkalinity	90 A	mg CaCO3/L	0.65	2.5
9/28/2015 10:10	SR 16 EFA-2	Nutrients	O-Phosphate-P	0.62	mg P/L	0.080	0.20
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Organic Carbon	6.5 A	mg C/L	0.50	1.0
9/28/2015 10:10	SR 16 EFA-2	Nutrients	TSS	2 I	mg/L	2.0	10
9/28/2015 10:10	SR 16 EFA-2	Nutrients	NO2NO3-N	13	mg N/L	0.20	0.50
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Fluoride	0.64	mg F/L	0.035	0.10
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Chloride	170 A	mg Cl/L	2.0	5.0
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Sulfate	260 A	mg SO4/L	2.0	5.0
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Kjeldahl Nitrogen	0.93	mg N/L	0.16	0.40

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Ammonia-N	0.020	mg N/L	0.0020	0.0050
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Turbidity	1.2	NTU	0.10	0.10
9/28/2015 10:10	SR 16 EFA-2	Overflow	Sulfide	1.0 U	mg/L	1.0	1.0
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Hexazinone	0.032 UJ	ug/L	0.032	0.13
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Beta-BHC	0.0021 U	ug/L	0.0021	0.0086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Endrin	0.0043 U	ug/L	0.0043	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	PCB-1260	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Sucralose	49	ug/L	1.0	5.0
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Diuron	0.0026 I	ug/L	0.0020	0.010
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Chlorpyrifos Methyl	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Fenamiphos	0.032 U	ug/L	0.032	0.13
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Metalaxyl	0.043 U	ug/L	0.043	0.17
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Metolachlor	0.064 U	ug/L	0.064	0.26
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Naled	0.043 U	ug/L	0.043	0.17
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Phorate	0.011 U	ug/L	0.011	0.044
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Prometryn	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	PCB-1248	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Atrazine Desisopropyl	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Alachlor	0.064 U	ug/L	0.064	0.26
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Azinphos Methyl	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Disulfoton	0.0053 U	ug/L	0.0053	0.021
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Fonofos	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Prometon	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Aldrin	0.0021 UY	ug/L	0.0021	0.0086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Alpha-BHC	0.0021 U	ug/L	0.0021	0.0086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Chlordane	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Chlorothalonil	0.0086 U	ug/L	0.0086	0.034
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Delta-BHC	0.0021 U	ug/L	0.0021	0.0086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Dieldrin	0.017 U	ug/L	0.017	0.070
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Endosulfan II	0.0021 U	ug/L	0.0021	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Trifluralin	0.0086 U	ug/L	0.0086	0.034
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Carbamazepine	0.031 J	ug/L	4.0E-04	0.0020
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Fenuron	0.0080 U	ug/L	0.0080	0.040
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Fluridone	4.0E-04 U	ug/L	4.0E-04	0.0020
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Atrazine	0.055	ug/L	0.011	0.043

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Demeton	0.027 U	ug/L	0.027	0.10
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Ethion	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	DDE-p,p'	0.0043 U	ug/L	0.0043	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Endosulfan Sulfate	0.0043 UJ	ug/L	0.0043	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Toxaphene	0.11 U	ug/L	0.11	0.43
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Malathion	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Metribuzin	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Carbophenothion	0.0064 U	ug/L	0.0064	0.026
9/28/2015 10:10	SR 16 EFA-2	Pesticides	DDD-p,p'	0.0043 U	ug/L	0.0043	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Dicofol	0.026 UJ	ug/L	0.026	0.10
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Endosulfan I	0.0021 U	ug/L	0.0021	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Endrin Aldehyde	0.0043 U	ug/L	0.0043	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Heptachlor Epoxide	0.0021 U	ug/L	0.0021	0.0086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Methoxychlor	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Permethrin	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Linuron	0.0040 U	ug/L	0.0040	0.020
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Bromacil	0.043 U	ug/L	0.043	0.17
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Chlorpyrifos Ethyl	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Diazinon	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Ethoprop	0.0053 U	ug/L	0.0053	0.021
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Norflurazon	0.032 U	ug/L	0.032	0.13
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Simazine	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	DDT-p,p'	0.0043 U	ug/L	0.0043	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Mirex	0.0043 U	ug/L	0.0043	0.017
9/28/2015 10:10	SR 16 EFA-2	Pesticides	PCB-1242	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	PCB-1254	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Ametryn	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Butylate	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Parathion Ethyl	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Gamma-BHC	0.0021 U	ug/L	0.0021	0.0086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	PCB-1016	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	PCB-1232	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Acetaminophen	0.0040 UJ	ug/L	0.0040	0.016
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Primidone	0.19	ug/L	0.0080	0.040
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Atrazine Desethyl	0.011 U	ug/L	0.011	0.043

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Mevinphos	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Parathion Methyl	0.011 U	ug/L	0.011	0.043
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Cypermethrin	0.013 U	ug/L	0.013	0.051
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Heptachlor	0.0021 U	ug/L	0.0021	0.0086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	PCB-1221	0.021 U	ug/L	0.021	0.086
9/28/2015 10:10	SR 16 EFA-2	Pesticides	Imidacloprid	0.13	ug/L	0.0040	0.016
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2-Chlorophenol	1.0 UJY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Phenol	1.0 UJY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Phenanthrene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Hexachlorobutadiene	3.0 UY	ug/L	3.0	12
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0 UY	ug/L	3.0	12
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2-Chloronaphthalene	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40 UY	ug/L	40	160
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.0 UJY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Acenaphthylene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Benzo(a)anthracene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2,4-Dinitrophenol	15 UY	ug/L	15	60
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 UY	ug/L	3.0	12
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Anthracene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Di-n-butyl phthalate	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Di-n-octyl phthalate	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0 UY	ug/L	3.0	12
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Nitrobenzene	2.0 UY	ug/L	2.0	8.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	4-Nitrophenol	15 UY	ug/L	15	60
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Dimethyl phthalate	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Isophorone	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2,4-Dimethylphenol	10 UJY	ug/L	10	40
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Benzo(a)pyrene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Chrysene	0.20 UY	ug/L	0.20	0.80

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Fluorene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0 UY	ug/L	2.0	8.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Naphthalene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2,4-Dichlorophenol	1.0 UJY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0 UY	ug/L	2.0	8.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 UY	ug/L	2.0	8.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0 UY	ug/L	3.0	12
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Pentachlorophenol	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Pyrene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2-Nitrophenol	1.0 UJY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Acenaphthene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Benzidine	100 UY	ug/L	100	400
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Hexachlorobenzene	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Hexachloroethane	3.0 UY	ug/L	3.0	12
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2,4-Dinitrotoluene	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	2,6-Dinitrotoluene	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Diethyl phthalate	1.0 UY	ug/L	1.0	4.0
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	Fluoranthene	0.20 UY	ug/L	0.20	0.80
9/28/2015 10:10	SR 16 EFA-2	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 UY	ug/L	2.0	8.0
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Temperature	29.5	C		
9/28/2015 10:10	SR 16 EFA-2	Nutrients	pH	7.04			
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Dissolved Oxygen	5.46	mg/L		
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Sample Depth	0.3	m		
9/28/2015 10:10	SR 16 EFA-2	Nutrients	Specific Conductance	1372	umhos/cm		
9/28/2015 12:15	SR 16 WEP-E	AGP/LN	Algal Growth Potential	141	mg DryWt/L	0.300	0.900
9/28/2015 12:15	SR 16 WEP-E	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.5 IJ	mg/L	0.20	2.0
9/28/2015 12:15	SR 16 WEP-E	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	3.3	ug/L	0.55	1.7
9/28/2015 12:15	SR 16 WEP-E	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.4	ug/L	0.40	1.2
9/28/2015 12:15	SR 16 WEP-E	Overflow	Fecal Coliforms-Membrane Filter	420	cfu/100 mL	10	10
9/28/2015 12:15	SR 16 WEP-E	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 12:15	SR 16 WEP-E	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
9/28/2015 12:15	SR 16 WEP-E	Metals	Nickel	1.35	ug/L	0.25	1.0
9/28/2015 12:15	SR 16 WEP-E	Metals	Silver	0.025 U	ug/L	0.025	0.10
9/28/2015 12:15	SR 16 WEP-E	Metals	Magnesium	36.2	mg/L	0.040	0.16
9/28/2015 12:15	SR 16 WEP-E	Metals	Cadmium	0.050 U	ug/L	0.050	0.20
9/28/2015 12:15	SR 16 WEP-E	Metals	Sodium	132	mg/L	0.50	2.0
9/28/2015 12:15	SR 16 WEP-E	Metals	Chromium	0.30 U	ug/L	0.30	1.2
9/28/2015 12:15	SR 16 WEP-E	Metals	Selenium	0.21 I	ug/L	0.20	0.80
9/28/2015 12:15	SR 16 WEP-E	Metals	Iron	33 I	ug/L	30	120
9/28/2015 12:15	SR 16 WEP-E	Metals	Potassium	13.8	mg/L	0.30	1.2
9/28/2015 12:15	SR 16 WEP-E	Metals	Zinc	16 I	ug/L	5.0	20
9/28/2015 12:15	SR 16 WEP-E	Metals	Arsenic	0.42 I	ug/L	0.25	1.0
9/28/2015 12:15	SR 16 WEP-E	Metals	Copper	0.50 U	ug/L	0.50	1.0
9/28/2015 12:15	SR 16 WEP-E	Metals	Antimony	0.25 U	ug/L	0.25	1.0
9/28/2015 12:15	SR 16 WEP-E	Metals	Calcium	58.4	mg/L	0.075	0.30
9/28/2015 12:15	SR 16 WEP-E	Metals	Lead	0.20 U	ug/L	0.20	0.80
9/28/2015 12:15	SR 16 WEP-E	Metals	Aluminum	71	ug/L	5.0	20
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Kjeldahl Nitrogen	1.5	mg N/L	0.080	0.20
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Organic Carbon	20	mg C/L	0.50	1.0
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Chloride	170	mg Cl/L	2.0	5.0
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Turbidity	1.2	NTU	0.10	0.10
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Total Alkalinity	123	mg CaCO3/L	0.65	2.5
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Ammonia-N	0.32	mg N/L	0.010	0.025
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Fluoride	0.55	mg F/L	0.035	0.10
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Color (true)	190	PCU	7.5	18
9/28/2015 12:15	SR 16 WEP-E	Nutrients	TSS	2 U	mg/L	2.0	10
9/28/2015 12:15	SR 16 WEP-E	Nutrients	O-Phosphate-P	0.70	mg P/L	0.040	0.10
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Total-P	0.75	mg P/L	0.0050	0.050
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Sulfate	220	mg SO4/L	2.0	5.0
9/28/2015 12:15	SR 16 WEP-E	Nutrients	NO2NO3-N	1.6	mg N/L	0.040	0.10
9/28/2015 12:15	SR 16 WEP-E	Overflow	Sulfide	1.0 U	mg/L	1.0	1.0
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Fenamiphos	0.033 U	ug/L	0.033	0.13
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Malathion	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Chlorothalonil	0.0088 U	ug/L	0.0088	0.035
9/28/2015 12:15	SR 16 WEP-E	Pesticides	PCB-1221	0.022 U	ug/L	0.022	0.088

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9/28/2015 12:15	SR 16 WEP-E	Pesticides	PCB-1254	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Toxaphene	0.11 U	ug/L	0.11	0.44
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Diuron	0.0039 I	ug/L	0.0020	0.010
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Linuron	0.0040 U	ug/L	0.0040	0.020
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Diazinon	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Ethion	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Fonofos	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Metalaxyl	0.044 U	ug/L	0.044	0.18
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Naled	0.044 U	ug/L	0.044	0.18
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Cypermethrin	0.013 U	ug/L	0.013	0.053
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Gamma-BHC	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Trifluralin	0.0088 U	ug/L	0.0088	0.035
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Fluridone	4.0E-04 U	ug/L	4.0E-04	0.0020
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Atrazine Desisopropyl	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Metolachlor	0.066 U	ug/L	0.066	0.26
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Prometon	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Acetaminophen	0.0040 U	ug/L	0.0040	0.016
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Ametryn	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Bromacil	0.044 U	ug/L	0.044	0.18
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Butylate	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Alpha-BHC	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Carbophenothion	0.0066 U	ug/L	0.0066	0.026
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Chlordane	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Dicofol	0.026 UJ	ug/L	0.026	0.11
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Endosulfan I	0.0022 U	ug/L	0.0022	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Endosulfan Sulfate	0.0044 UJ	ug/L	0.0044	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	PCB-1232	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	PCB-1242	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Chlorpyrifos Methyl	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Hexazinone	0.033 UJ	ug/L	0.033	0.13
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Norflurazon	0.033 U	ug/L	0.033	0.13
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Parathion Methyl	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Prometryn	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	DDE-p,p'	0.0044 U	ug/L	0.0044	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Endrin	0.0044 U	ug/L	0.0044	0.018

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Heptachlor Epoxide	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Methoxychlor	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	PCB-1248	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Sucralose	48	ug/L	1.0	5.0
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Carbamazepine	0.062	ug/L	4.0E-04	0.0020
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Fenuron	0.0080 U	ug/L	0.0080	0.040
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Demeton	0.026 U	ug/L	0.026	0.11
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Disulfoton	0.0055 U	ug/L	0.0055	0.022
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Ethoprop	0.0055 U	ug/L	0.0055	0.022
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Metribuzin	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Mevinphos	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Simazine	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Aldrin	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Beta-BHC	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	DDT-p,p'	0.0044 U	ug/L	0.0044	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Delta-BHC	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Heptachlor	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	PCB-1260	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Alachlor	0.066 U	ug/L	0.066	0.26
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Atrazine	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Atrazine Desethyl	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Azinphos Methyl	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Phorate	0.0055 U	ug/L	0.0055	0.022
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Endosulfan II	0.0022 U	ug/L	0.0022	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Mirex	0.0044 U	ug/L	0.0044	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	PCB-1016	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Permethrin	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Chlorpyrifos Ethyl	0.011 U	ug/L	0.011	0.044
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Parathion Ethyl	0.022 U	ug/L	0.022	0.088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	DDD-p,p'	0.0044 U	ug/L	0.0044	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Dieldrin	0.0022 U	ug/L	0.0022	0.0088
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Endrin Aldehyde	0.0044 U	ug/L	0.0044	0.018
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Imidacloprid	0.061	ug/L	0.0040	0.016
9/28/2015 12:15	SR 16 WEP-E	Pesticides	Primidone	0.20	ug/L	0.0080	0.040
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.96 U	ug/L	0.96	3.8

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2-Chlorophenol	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Pyrene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Pentachlorophenol	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Isophorone	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Fluoranthene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2,6-Dinitrotoluene	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Phenol	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9 U	ug/L	1.9	7.7
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Di-n-octyl phthalate	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Dimethyl phthalate	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Hexachlorobenzene	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Hexachlorobutadiene	2.9 U	ug/L	2.9	12
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Phenanthrene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	ug/L	2.9	12
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.7
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9 U	ug/L	2.9	12
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2-Chloronaphthalene	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38 U	ug/L	38	150
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	4-Nitrophenol	14 U	ug/L	14	58
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Acenaphthene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Anthracene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9 U	ug/L	2.9	12
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Chrysene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Di-n-butyl phthalate	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Fluorene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Hexachloroethane	2.9 U	ug/L	2.9	12
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Nitrobenzene	1.9 U	ug/L	1.9	7.7
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2-Nitrophenol	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Acenaphthylene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Benzo(b)fluoranthene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.96 U	ug/L	0.96	3.8

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9 U	ug/L	2.9	12
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Naphthalene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2,4-Dichlorophenol	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2,4-Dimethylphenol	9.6 U	ug/L	9.6	38
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Benzidine	96 U	ug/L	96	380
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Benzo(a)anthracene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Benzo(k)fluoranthene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Butyl benzyl phthalate	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Diethyl phthalate	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2,4-Dinitrophenol	14 U	ug/L	14	58
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Benzo(a)pyrene	0.19 U	ug/L	0.19	0.77
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 U	ug/L	1.9	7.7
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9 U	ug/L	1.9	7.7
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	2,4-Dinitrotoluene	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.96 U	ug/L	0.96	3.8
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Specific Conductance	1210	umhos/cm		
9/28/2015 12:15	SR 16 WEP-E	Nutrients	pH	7.41			
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Temperature	26.0	C		
9/28/2015 12:15	SR 16 WEP-E	Nutrients	Sample Depth	0.3	m		
9/28/2015 10:50	SR 16 WEP-NW	AGP/LN	Algal Growth Potential	4.13	mg DryWt/L	0.300	0.900
9/28/2015 10:50	SR 16 WEP-NW	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.5 I	ug/L	0.55	1.7
9/28/2015 10:50	SR 16 WEP-NW	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.4 IJ	mg/L	0.20	2.0
9/28/2015 10:50	SR 16 WEP-NW	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40 U	ug/L	0.40	1.2
9/28/2015 10:50	SR 16 WEP-NW	Overflow	Fecal Coliforms-Membrane Filter	780 B	cfu/100 mL	9.1	9.1
9/28/2015 10:50	SR 16 WEP-NW	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
9/28/2015 10:50	SR 16 WEP-NW	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
9/28/2015 10:50	SR 16 WEP-NW	Metals	Sodium	98.2	mg/L	0.50	2.0
9/28/2015 10:50	SR 16 WEP-NW	Metals	Lead	0.34 I	ug/L	0.20	0.80
9/28/2015 10:50	SR 16 WEP-NW	Metals	Nickel	0.98 I	ug/L	0.25	1.0
9/28/2015 10:50	SR 16 WEP-NW	Metals	Aluminum	138	ug/L	5.0	20
9/28/2015 10:50	SR 16 WEP-NW	Metals	Magnesium	25.9	mg/L	0.040	0.16
9/28/2015 10:50	SR 16 WEP-NW	Metals	Potassium	10.7	mg/L	0.30	1.2
9/28/2015 10:50	SR 16 WEP-NW	Metals	Antimony	0.25 U	ug/L	0.25	1.0

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:50	SR 16 WEP-NW	Metals	Silver	0.025 U	ug/L	0.025	0.10
9/28/2015 10:50	SR 16 WEP-NW	Metals	Calcium	42.7	mg/L	0.075	0.30
9/28/2015 10:50	SR 16 WEP-NW	Metals	Copper	0.50 U	ug/L	0.50	1.0
9/28/2015 10:50	SR 16 WEP-NW	Metals	Arsenic	0.49 I	ug/L	0.25	1.0
9/28/2015 10:50	SR 16 WEP-NW	Metals	Iron	120 I	ug/L	30	120
9/28/2015 10:50	SR 16 WEP-NW	Metals	Selenium	0.21 I	ug/L	0.20	0.80
9/28/2015 10:50	SR 16 WEP-NW	Metals	Chromium	0.30 U	ug/L	0.30	1.2
9/28/2015 10:50	SR 16 WEP-NW	Metals	Zinc	5.0 U	ug/L	5.0	20
9/28/2015 10:50	SR 16 WEP-NW	Metals	Cadmium	0.050 U	ug/L	0.050	0.20
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	TSS	2 I	mg/L	2.0	10
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Sulfate	130	mg SO4/L	0.40	1.0
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Chloride	120	mg Cl/L	0.40	1.0
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Total-P	0.66	mg P/L	0.0050	0.050
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	O-Phosphate-P	0.62	mg P/L	0.040	0.10
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Organic Carbon	30	mg C/L	0.50	1.0
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Kjeldahl Nitrogen	1.3	mg N/L	0.080	0.20
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Ammonia-N	0.051	mg N/L	0.0020	0.0050
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Fluoride	0.46	mg F/L	0.035	0.10
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Total Alkalinity	116	mg CaCO3/L	0.65	2.5
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Color (true)	360	PCU	7.5	18
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Turbidity	1.7	NTU	0.10	0.10
9/28/2015 10:50	SR 16 WEP-NW	Overflow	Sulfide	1.0 U	mg/L	1.0	1.0
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Parathion Ethyl	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Phorate	0.0049 U	ug/L	0.0049	0.019
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	PCB-1016	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Ametryn	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Atrazine Desisopropyl	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Bromacil	0.039 U	ug/L	0.039	0.16
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Metalaxyl	0.039 U	ug/L	0.039	0.16
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Parathion Methyl	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Delta-BHC	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Endosulfan I	0.0019 U	ug/L	0.0019	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Endosulfan Sulfate	0.0039 UJ	ug/L	0.0039	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Methoxychlor	0.0097 U	ug/L	0.0097	0.039

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Mirex	0.0039 U	ug/L	0.0039	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	PCB-1248	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	PCB-1260	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Fenuron	0.0080 U	ug/L	0.0080	0.040
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Primidone	0.080	ug/L	0.0080	0.040
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Demeton	0.023 U	ug/L	0.023	0.093
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Fenamiphos	0.029 U	ug/L	0.029	0.12
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Malathion	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Chlorothalonil	0.0078 U	ug/L	0.0078	0.031
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	DDT-p,p'	0.0039 U	ug/L	0.0039	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Endosulfan II	0.0019 U	ug/L	0.0019	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Heptachlor Epoxide	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Fluridone	4.0E-04 U	ug/L	4.0E-04	0.0020
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Atrazine Desethyl	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Azinphos Methyl	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Ethion	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Ethoprop	0.0049 U	ug/L	0.0049	0.019
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Simazine	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Alpha-BHC	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	DDE-p,p'	0.0039 U	ug/L	0.0039	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Dicofol	0.023 UJ	ug/L	0.023	0.093
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Heptachlor	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Toxaphene	0.097 U	ug/L	0.097	0.39
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Sucralose	16	ug/L	0.10	0.50
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Atrazine	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Chlorpyrifos Ethyl	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Fonofos	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Hexazinone	0.029 UJ	ug/L	0.029	0.12
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Metolachlor	0.058 U	ug/L	0.058	0.23
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Mevinphos	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Prometryn	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Dieldrin	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Diuron	0.0020 U	ug/L	0.0020	0.010
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Butylate	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Diazinon	0.0097 U	ug/L	0.0097	0.039

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Disulfoton	0.0049 U	ug/L	0.0049	0.019
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Naled	0.039 U	ug/L	0.039	0.16
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Prometon	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Aldrin	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	DDD-p,p'	0.0039 U	ug/L	0.0039	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Endrin	0.0039 U	ug/L	0.0039	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	PCB-1221	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	PCB-1242	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	PCB-1254	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Permethrin	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Acetaminophen	0.0040 U	ug/L	0.0040	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Alachlor	0.058 U	ug/L	0.058	0.23
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Metribuzin	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Norflurazon	0.029 U	ug/L	0.029	0.12
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Cypermethrin	0.012 U	ug/L	0.012	0.047
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Trifluralin	0.0078 U	ug/L	0.0078	0.031
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Linuron	0.0040 U	ug/L	0.0040	0.020
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Chlorpyrifos Methyl	0.0097 U	ug/L	0.0097	0.039
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Beta-BHC	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Carbophenothion	0.0058 U	ug/L	0.0058	0.023
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Chlordane	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Endrin Aldehyde	0.0039 U	ug/L	0.0039	0.016
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Gamma-BHC	0.0019 U	ug/L	0.0019	0.0078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	PCB-1232	0.019 U	ug/L	0.019	0.078
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Carbamazepine	0.049	ug/L	4.0E-04	0.0020
9/28/2015 10:50	SR 16 WEP-NW	Pesticides	Imidacloprid	0.019	ug/L	0.0040	0.016
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2-Chloronaphthalene	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Anthracene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.3 U	ug/L	3.3	13
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2-Nitrophenol	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Acenaphthene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Fluoranthene	0.22 U	ug/L	0.22	0.88

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	N-Nitrosodimethylamine	2.2 U	ug/L	2.2	8.8
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Pyrene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2-Chlorophenol	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2,4-Dichlorophenol	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Naphthalene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.3 U	ug/L	3.3	13
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Benzidine	110 U	ug/L	110	440
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2,6-Dinitrotoluene	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Acenaphthylene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Benzo(k)fluoranthene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Di-n-butyl phthalate	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Hexachlorobutadiene	3.3 U	ug/L	3.3	13
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Phenol	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2,4-Dinitrotoluene	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	4-Nitrophenol	16 U	ug/L	16	66
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.3 U	ug/L	3.3	13
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.2 U	ug/L	2.2	8.8
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Hexachlorobenzene	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Pentachlorophenol	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Phenanthrene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2,4-Dimethylphenol	11 U	ug/L	11	44
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Benzo(a)anthracene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Chrysene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Dimethyl phthalate	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Hexachloroethane	3.3 U	ug/L	3.3	13
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.2 U	ug/L	2.2	8.8
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	2,4-Dinitrophenol	16 U	ug/L	16	66
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.2 U	ug/L	2.2	8.8
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Benzo(a)pyrene	0.22 U	ug/L	0.22	0.88

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Benzo(b)fluoranthene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Fluorene	0.22 U	ug/L	0.22	0.88
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.3 U	ug/L	3.3	13
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	3,3'-Dichlorobenzidine	44 U	ug/L	44	180
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Di-n-octyl phthalate	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Diethyl phthalate	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Isophorone	1.1 U	ug/L	1.1	4.4
9/28/2015 10:50	SR 16 WEP-NW	Priority Organic Pollutants	Nitrobenzene	2.2 U	ug/L	2.2	8.8
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Sample Depth	0.3	m		
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	pH	7.45			
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Specific Conductance	896	umhos/cm		
9/28/2015 10:50	SR 16 WEP-NW	Nutrients	Temperature	25.2	C		
9/28/2015 11:30	SR 16 WEP-SW	AGP/LN	Algal Growth Potential	5.52	mg DryWt/L	0.300	0.900
9/28/2015 11:30	SR 16 WEP-SW	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.0 I	ug/L	0.55	1.7
9/28/2015 11:30	SR 16 WEP-SW	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.3 IJ	mg/L	0.20	2.0
9/28/2015 11:30	SR 16 WEP-SW	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40 U	ug/L	0.40	1.2
9/28/2015 11:30	SR 16 WEP-SW	Overflow	Fecal Coliforms-Membrane Filter	380	cfu/100 mL	10	10
9/28/2015 11:30	SR 16 WEP-SW	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
9/28/2015 11:30	SR 16 WEP-SW	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
9/28/2015 11:30	SR 16 WEP-SW	Metals	Copper	0.50 U	ug/L	0.50	1.0
9/28/2015 11:30	SR 16 WEP-SW	Metals	Antimony	0.25 U	ug/L	0.25	1.0
9/28/2015 11:30	SR 16 WEP-SW	Metals	Nickel	0.66 I	ug/L	0.25	1.0
9/28/2015 11:30	SR 16 WEP-SW	Metals	Iron	280	ug/L	30	120
9/28/2015 11:30	SR 16 WEP-SW	Metals	Chromium	0.30 U	ug/L	0.30	1.2
9/28/2015 11:30	SR 16 WEP-SW	Metals	Potassium	10.0	mg/L	0.30	1.2
9/28/2015 11:30	SR 16 WEP-SW	Metals	Selenium	0.20 U	ug/L	0.20	0.80
9/28/2015 11:30	SR 16 WEP-SW	Metals	Silver	0.025 U	ug/L	0.025	0.10
9/28/2015 11:30	SR 16 WEP-SW	Metals	Calcium	38.3	mg/L	0.075	0.30
9/28/2015 11:30	SR 16 WEP-SW	Metals	Sodium	77.7	mg/L	0.50	2.0
9/28/2015 11:30	SR 16 WEP-SW	Metals	Arsenic	0.43 I	ug/L	0.25	1.0
9/28/2015 11:30	SR 16 WEP-SW	Metals	Cadmium	0.050 U	ug/L	0.050	0.20
9/28/2015 11:30	SR 16 WEP-SW	Metals	Magnesium	20.7	mg/L	0.040	0.16
9/28/2015 11:30	SR 16 WEP-SW	Metals	Zinc	5.0 U	ug/L	5.0	20
9/28/2015 11:30	SR 16 WEP-SW	Metals	Lead	0.36 I	ug/L	0.20	0.80

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:30	SR 16 WEP-SW	Metals	Aluminum	82	ug/L	5.0	20
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Total Alkalinity	114	mg CaCO3/L	0.65	2.5
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Turbidity	1.1	NTU	0.10	0.10
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Ammonia-N	0.055	mg N/L	0.0020	0.0050
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Chloride	110	mg Cl/L	0.40	1.0
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Kjeldahl Nitrogen	1.0	mg N/L	0.080	0.20
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Fluoride	0.40	mg F/L	0.035	0.10
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Color (true)	250	PCU	7.5	18
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Organic Carbon	23	mg C/L	0.50	1.0
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	TSS	2 I	mg/L	2.0	10
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Sulfate	92	mg SO4/L	0.40	1.0
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	O-Phosphate-P	0.50	mg P/L	0.040	0.10
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Total-P	0.56	mg P/L	0.0050	0.050
9/28/2015 11:30	SR 16 WEP-SW	Overflow	Sulfide	1.0 U	mg/L	1.0	1.0
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Ametryn	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Atrazine	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Norflurazon	0.031 U	ug/L	0.031	0.13
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Endosulfan I	0.0021 U	ug/L	0.0021	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Gamma-BHC	0.0021 U	ug/L	0.0021	0.0084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	PCB-1242	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Toxaphene	0.10 U	ug/L	0.10	0.42
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Trifluralin	0.0084 U	ug/L	0.0084	0.033
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Chlorpyrifos Ethyl	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Diazinon	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Ethion	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Phorate	0.0052 U	ug/L	0.0052	0.021
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Heptachlor Epoxide	0.0021 U	ug/L	0.0021	0.0084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Mirex	0.0042 U	ug/L	0.0042	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	PCB-1221	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	PCB-1248	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Acetaminophen	0.0067 I	ug/L	0.0040	0.016
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Linuron	0.0040 U	ug/L	0.0040	0.020
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Disulfoton	0.0052 U	ug/L	0.0052	0.021
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Fonofos	0.010 U	ug/L	0.010	0.042

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Cypermethrin	0.013 U	ug/L	0.013	0.050
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Carbamazepine	0.050	ug/L	4.0E-04	0.0020
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Diuron	0.0020 U	ug/L	0.0020	0.010
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Fenuron	0.0080 U	ug/L	0.0080	0.040
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Atrazine Desisopropyl	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Naled	0.042 U	ug/L	0.042	0.17
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Aldrin	0.0021 U	ug/L	0.0021	0.0084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Alpha-BHC	0.0021 U	ug/L	0.0021	0.0084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Beta-BHC	0.0021 U	ug/L	0.0021	0.0084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Delta-BHC	0.0021 U	ug/L	0.0021	0.0084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Endosulfan Sulfate	0.0042 UJ	ug/L	0.0042	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Endrin	0.0042 U	ug/L	0.0042	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	PCB-1232	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Permethrin	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Atrazine Desethyl	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Bromacil	0.042 U	ug/L	0.042	0.17
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Butylate	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Demeton	0.025 U	ug/L	0.025	0.10
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Hexazinone	0.031 UJ	ug/L	0.031	0.13
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Metolachlor	0.063 U	ug/L	0.063	0.25
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Parathion Ethyl	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Carbophenothion	0.0063 U	ug/L	0.0063	0.025
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Chlordane	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	DDD-p,p'	0.0042 U	ug/L	0.0042	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	DDE-p,p'	0.0042 U	ug/L	0.0042	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Dicofol	0.025 UJ	ug/L	0.025	0.10
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Dieldrin	0.0021 U	ug/L	0.0021	0.0084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Imidacloprid	0.0078 I	ug/L	0.0040	0.016
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Ethoprop	0.0052 U	ug/L	0.0052	0.021
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Fenamiphos	0.031 U	ug/L	0.031	0.13
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Metribuzin	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Prometryn	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Endosulfan II	0.0021 U	ug/L	0.0021	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Endrin Aldehyde	0.0042 U	ug/L	0.0042	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Heptachlor	0.0021 U	ug/L	0.0021	0.0084

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	PCB-1016	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	PCB-1254	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Sucralose	13	ug/L	0.10	0.50
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Primidone	0.076	ug/L	0.0080	0.040
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Malathion	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Metalaxyl	0.042 U	ug/L	0.042	0.17
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Prometon	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Simazine	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Chlorothalonil	0.0084 U	ug/L	0.0084	0.033
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	DDT-p,p'	0.0042 U	ug/L	0.0042	0.017
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Alachlor	0.063 U	ug/L	0.063	0.25
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Azinphos Methyl	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Chlorpyrifos Methyl	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Mevinphos	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Parathion Methyl	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Methoxychlor	0.010 U	ug/L	0.010	0.042
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	PCB-1260	0.021 U	ug/L	0.021	0.084
9/28/2015 11:30	SR 16 WEP-SW	Pesticides	Fluridone	4.0E-04 U	ug/L	4.0E-04	0.0020
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Phenol	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2-Chloronaphthalene	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Acenaphthylene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.2 U	ug/L	3.2	13
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Fluoranthene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Fluorene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.2 U	ug/L	3.2	13
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Nitrobenzene	2.1 U	ug/L	2.1	8.4
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Pyrene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2,4-Dimethylphenol	11 U	ug/L	11	42
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2-Chlorophenol	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Acenaphthene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Anthracene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Benzo(b)fluoranthene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.1 U	ug/L	1.1	4.2

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.1 U	ug/L	2.1	8.4
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Hexachlorobutadiene	3.2 U	ug/L	3.2	13
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.1 U	ug/L	2.1	8.4
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2,4-Dinitrotoluene	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Pentachlorophenol	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.2 U	ug/L	3.2	13
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Isophorone	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Hexachlorobenzene	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Di-n-octyl phthalate	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2-Nitrophenol	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Dimethyl phthalate	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Hexachloroethane	3.2 U	ug/L	3.2	13
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	ug/L	2.1	8.4
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2,4-Dinitrophenol	16 U	ug/L	16	63
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	3,3'-Dichlorobenzidine	42 U	ug/L	42	170
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.1 U	ug/L	2.1	8.4
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Chrysene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Di-n-butyl phthalate	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Phenanthrene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Benzo(a)anthracene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Benzo(a)pyrene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Benzo(k)fluoranthene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Diethyl phthalate	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Naphthalene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2,4-Dichlorophenol	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.2 U	ug/L	3.2	13
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	4-Nitrophenol	16 U	ug/L	16	63
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	2,6-Dinitrotoluene	1.1 U	ug/L	1.1	4.2
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.21 U	ug/L	0.21	0.84
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.21 U	ug/L	0.21	0.84

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:30	SR 16 WEP-SW	Priority Organic Pollutants	Benzidine	110 U	ug/L	110	420
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Specific Conductance	774	umhos/cm		
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Sample Depth	0.3	m		
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	Temperature	25.2	C		
9/28/2015 11:30	SR 16 WEP-SW	Nutrients	pH	7.57			
9/28/2015 11:45	FIELD BLANK	Metals	Calcium	0.075 U	mg/L	0.075	0.30
9/28/2015 11:45	FIELD BLANK	Metals	Potassium	0.30 U	mg/L	0.30	1.2
9/28/2015 11:45	FIELD BLANK	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
9/28/2015 11:45	FIELD BLANK	Metals	Nickel	0.25 U	ug/L	0.25	1.0
9/28/2015 11:45	FIELD BLANK	Metals	Sodium	0.50 U	mg/L	0.50	2.0
9/28/2015 11:45	FIELD BLANK	Metals	Antimony	0.25 U	ug/L	0.25	1.0
9/28/2015 11:45	FIELD BLANK	Metals	Silver	0.025 U	ug/L	0.025	0.10
9/28/2015 11:45	FIELD BLANK	Metals	Selenium	0.20 U	ug/L	0.20	0.80
9/28/2015 11:45	FIELD BLANK	Metals	Chromium	0.30 U	ug/L	0.30	1.2
9/28/2015 11:45	FIELD BLANK	Metals	Zinc	5.0 U	ug/L	5.0	20
9/28/2015 11:45	FIELD BLANK	Metals	Iron	30 U	ug/L	30	120
9/28/2015 11:45	FIELD BLANK	Metals	Aluminum	5.0 U	ug/L	5.0	20
9/28/2015 11:45	FIELD BLANK	Metals	Cadmium	0.050 U	ug/L	0.050	0.20
9/28/2015 11:45	FIELD BLANK	Metals	Lead	0.20 U	ug/L	0.20	0.80
9/28/2015 11:45	FIELD BLANK	Metals	Arsenic	0.25 U	ug/L	0.25	1.0
9/28/2015 11:45	FIELD BLANK	Metals	Copper	0.50 U	ug/L	0.50	1.0
9/28/2015 11:45	FIELD BLANK	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
9/28/2015 11:45	FIELD BLANK	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
9/28/2015 11:45	FIELD BLANK	Nutrients	Ammonia-N	0.003 I	mg N/L	0.0020	0.0050
9/28/2015 11:45	FIELD BLANK	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
9/28/2015 11:45	FIELD BLANK	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.10
9/28/2015 11:45	FIELD BLANK	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
9/28/2015 11:45	FIELD BLANK	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
9/28/2015 11:45	FIELD BLANK	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
9/28/2015 11:45	FIELD BLANK	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
9/28/2015 11:45	FIELD BLANK	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
9/28/2015 11:45	FIELD BLANK	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
9/28/2015 11:45	FIELD BLANK	Nutrients	Turbidity	0.10 U	NTU	0.10	0.10
9/28/2015 11:45	FIELD BLANK	Overflow	Sulfide	1.0 U	mg/L	1.0	1.0
9/28/2015 11:45	FIELD BLANK	Pesticides	Chlorpyrifos Methyl	0.0095 U	ug/L	0.0095	0.038

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:45	FIELD BLANK	Pesticides	Diazinon	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Mevinphos	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Simazine	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	PCB-1232	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	PCB-1254	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Trifluralin	0.0076 U	ug/L	0.0076	0.030
9/28/2015 11:45	FIELD BLANK	Pesticides	Acetaminophen	0.0040 U	ug/L	0.0040	0.016
9/28/2015 11:45	FIELD BLANK	Pesticides	Imidacloprid	0.0040 U	ug/L	0.0040	0.016
9/28/2015 11:45	FIELD BLANK	Pesticides	Linuron	0.0040 U	ug/L	0.0040	0.020
9/28/2015 11:45	FIELD BLANK	Pesticides	Azinphos Methyl	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Demeton	0.023 U	ug/L	0.023	0.091
9/28/2015 11:45	FIELD BLANK	Pesticides	Disulfoton	0.0047 U	ug/L	0.0047	0.019
9/28/2015 11:45	FIELD BLANK	Pesticides	Ethoprop	0.0047 U	ug/L	0.0047	0.019
9/28/2015 11:45	FIELD BLANK	Pesticides	Metalaxyl	0.038 U	ug/L	0.038	0.15
9/28/2015 11:45	FIELD BLANK	Pesticides	Metolachlor	0.057 U	ug/L	0.057	0.23
9/28/2015 11:45	FIELD BLANK	Pesticides	Delta-BHC	0.0019 U	ug/L	0.0019	0.0076
9/28/2015 11:45	FIELD BLANK	Pesticides	Endosulfan II	0.0019 U	ug/L	0.0019	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	Butylate	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Fenamiphos	0.028 U	ug/L	0.028	0.11
9/28/2015 11:45	FIELD BLANK	Pesticides	Naled	0.038 U	ug/L	0.038	0.15
9/28/2015 11:45	FIELD BLANK	Pesticides	Parathion Ethyl	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Dieldrin	0.0019 U	ug/L	0.0019	0.0076
9/28/2015 11:45	FIELD BLANK	Pesticides	Endrin	0.0038 U	ug/L	0.0038	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	Fenuron	0.0080 U	ug/L	0.0080	0.040
9/28/2015 11:45	FIELD BLANK	Pesticides	Ametryn	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Hexazinone	0.028 UJ	ug/L	0.028	0.11
9/28/2015 11:45	FIELD BLANK	Pesticides	Parathion Methyl	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Phorate	0.0047 U	ug/L	0.0047	0.019
9/28/2015 11:45	FIELD BLANK	Pesticides	DDD-p,p'	0.0038 U	ug/L	0.0038	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	Dicofol	0.023 UJ	ug/L	0.023	0.091
9/28/2015 11:45	FIELD BLANK	Pesticides	Mirex	0.0038 U	ug/L	0.0038	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	PCB-1221	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Carbamazepine	4.0E-04 U	ug/L	4.0E-04	0.0020
9/28/2015 11:45	FIELD BLANK	Pesticides	Primidone	0.0080 U	ug/L	0.0080	0.040
9/28/2015 11:45	FIELD BLANK	Pesticides	Atrazine	0.0095 U	ug/L	0.0095	0.038

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:45	FIELD BLANK	Pesticides	Atrazine Desisopropyl	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Bromacil	0.038 U	ug/L	0.038	0.15
9/28/2015 11:45	FIELD BLANK	Pesticides	Ethion	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Malathion	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Norflurazon	0.028 U	ug/L	0.028	0.11
9/28/2015 11:45	FIELD BLANK	Pesticides	Prometon	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	DDT-p,p'	0.0038 U	ug/L	0.0038	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	Endosulfan I	0.0019 U	ug/L	0.0019	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	Endosulfan Sulfate	0.0038 UJ	ug/L	0.0038	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	PCB-1016	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	PCB-1242	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	PCB-1248	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Atrazine Desethyl	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Fonofos	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Aldrin	0.0019 U	ug/L	0.0019	0.0076
9/28/2015 11:45	FIELD BLANK	Pesticides	Chlordane	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Cypermethrin	0.011 U	ug/L	0.011	0.045
9/28/2015 11:45	FIELD BLANK	Pesticides	PCB-1260	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Permethrin	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Sucralose	0.010 U	ug/L	0.010	0.050
9/28/2015 11:45	FIELD BLANK	Pesticides	Diuron	0.0020 U	ug/L	0.0020	0.010
9/28/2015 11:45	FIELD BLANK	Pesticides	Chlorothalonil	0.0076 U	ug/L	0.0076	0.030
9/28/2015 11:45	FIELD BLANK	Pesticides	DDE-p,p'	0.0038 U	ug/L	0.0038	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	Heptachlor	0.0019 U	ug/L	0.0019	0.0076
9/28/2015 11:45	FIELD BLANK	Pesticides	Methoxychlor	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Fluridone	4.0E-04 U	ug/L	4.0E-04	0.0020
9/28/2015 11:45	FIELD BLANK	Pesticides	Alachlor	0.057 U	ug/L	0.057	0.23
9/28/2015 11:45	FIELD BLANK	Pesticides	Chlorpyrifos Ethyl	0.0095 U	ug/L	0.0095	0.038
9/28/2015 11:45	FIELD BLANK	Pesticides	Metribuzin	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Prometryn	0.019 U	ug/L	0.019	0.076
9/28/2015 11:45	FIELD BLANK	Pesticides	Alpha-BHC	0.0019 U	ug/L	0.0019	0.0076
9/28/2015 11:45	FIELD BLANK	Pesticides	Beta-BHC	0.0019 U	ug/L	0.0019	0.0076
9/28/2015 11:45	FIELD BLANK	Pesticides	Carbophenothion	0.0057 U	ug/L	0.0057	0.023
9/28/2015 11:45	FIELD BLANK	Pesticides	Endrin Aldehyde	0.0038 U	ug/L	0.0038	0.015
9/28/2015 11:45	FIELD BLANK	Pesticides	Gamma-BHC	0.0019 U	ug/L	0.0019	0.0076

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:45	FIELD BLANK	Pesticides	Heptachlor Epoxide	0.0019 U	ug/L	0.0019	0.0076
9/28/2015 11:45	FIELD BLANK	Pesticides	Toxaphene	0.095 U	ug/L	0.095	0.38
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2,4-Dinitrotoluene	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 U	ug/L	1.9	7.5
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Acenaphthene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Benzo(a)anthracene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.8 U	ug/L	2.8	11
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Naphthalene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Pentachlorophenol	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9 U	ug/L	1.9	7.5
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Fluorene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Hexachlorobutadiene	2.8 U	ug/L	2.8	11
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.8 U	ug/L	2.8	11
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Benzo(k)fluoranthene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Benzo(b)fluoranthene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2-Nitrophenol	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2,4-Dinitrophenol	14 U	ug/L	14	57
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2,4-Dimethylphenol	9.4 U	ug/L	9.4	38
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38 U	ug/L	38	150
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Acenaphthylene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Di-n-butyl phthalate	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Di-n-octyl phthalate	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Dimethyl phthalate	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9 U	ug/L	1.9	7.5
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.8 U	ug/L	2.8	11
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Phenanthrene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2,4-Dichlorophenol	0.94 U	ug/L	0.94	3.8

Date	Field ID	Analysis	Component	Result	Units	MDL	PQL
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Anthracene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Butyl benzyl phthalate	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Chrysene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Fluoranthene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Isophorone	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2-Chloronaphthalene	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	4-Nitrophenol	14 U	ug/L	14	57
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Benzidine	94 U	ug/L	94	380
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.5
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Phenol	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8 U	ug/L	2.8	11
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Benzo(a)pyrene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.19 U	ug/L	0.19	0.75
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2,6-Dinitrotoluene	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	2-Chlorophenol	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Diethyl phthalate	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Hexachlorobenzene	0.94 U	ug/L	0.94	3.8
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Hexachloroethane	2.8 U	ug/L	2.8	11
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Nitrobenzene	1.9 U	ug/L	1.9	7.5
9/28/2015 11:45	FIELD BLANK	Priority Organic Pollutants	Pyrene	0.19 U	ug/L	0.19	0.75

EPA End Sheet

The Bioassays of SR-16 WWTF effluents sampled on September 28, 2015. NPDES #FL0043109.

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 4 3 1 0 9	1 1 1 2 1 5 0 9 2 8	1 8 **B**	1 9 **S**	2 0 1

Remarks

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The Priority Pollutants Analysis of SR-16 WWTF effluents sampled on September 28, 2015. NPDES #FL0043109.

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 4 3 1 0 9	1 1 1 2 1 5 0 9 2 8	1 8 **X**	1 9 **S**	2 0 1

Remarks

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Biological Analyses of SR-16 WWTF effluents sampled on September 28, 2015. NPDES #FL0043109.

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 4 3 1 0 9	1 1 1 2 1 5 0 9 2 8	1 8 **S**	1 9 **S**	2 0 1

Remarks

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