Effluent Quality Assessment of

River Oaks Advanced Wastewater Treatment Facility

Hillsborough County

NPDES # FL0027821

Sampled March 23, 2015

September 2015

Biology Section

Bureau of Laboratories

Division of Environmental Assessment and Restoration

2015 FDEP Bureau of Laboratories Quality Manual

NELAC Certification No. E31780

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River Oaks Advanced Wastewater Treatment Facility (AWWTF), 8425 Sheldon Rd., Tampa, Hillsborough County, Florida, 33615. NPDES #FL0027821.

Facility Overview

River Oaks Advanced Wastewater Treatment Facility (AWWTF) is a Type 1 activated sludge advanced domestic wastewater treatment plant. See Appendix A 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 and effluent grab and composite samples for biological and chemical analyses for this facility were collected on March 23, 2015. All samples were collected from the EFD-01 NPDES sampling point for Outfall D-001 by Erica Cooper, Jaclyn Jordan, Lance Kautz and Peter Wenner (FDEP Southwest District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling (see Appendix B).

The 96-hour acute definitive toxicity tests and algal growth potential test 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 C)

- The total ammonia concentration in the composite sample collected and preserved for chemical analysis was 0.032 mg N/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was <0.02 mg/L.
- Bromodichloromethane, chlorodibromomethane, chloroform, turbidity, alkalinity, fluoride, copper, 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.). Arsenic, chromium and iron were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL).

Algal Growth Potential (See Table 4 and Appendix C)

- The effluent Algal Growth Potential (AGP) was 8.92 A mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. 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 analytical chemistry suggests that the effluent is nitrogen limited (Miller et al. 1978).

Toxicity Test Results (See Appendix C)

- Tests were performed March 24 -28, 2015.

  Ceriodaphnia dubia 96-hour acute definitive bioassay - LC_{50} > 100%, 20%* 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. Greater than 50% mortality in an acute toxicity test may constitute an exceedance of 62-302.500(1)(a) and/or facility permit limits. 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 sample collected from the EFD-01 NPDES sampling point for this facility on March 23, 2015, was not acutely toxic to either test species during the 96-hour acute definitive bioassays. The effluent AGP result was greater than the "problem" threshold for fresh receiving waters suggesting that nutrient enrichment may be an issue. Effluent water quality samples collected on March 23, 2015, did not exceed any applicable water quality standards or violate 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.

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

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

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

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

River Oaks AWWTP	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab 3/23/15
Temperature	C	-	-	26.8
pH	SU	6.0 - 8.5	-	7.3
Specific Conductance	umhos/cm	≤ 1,275	-	827
Salinity	ppth	-	-	0.4 c
Dissolved Oxygen	% saturation	≥ 38	-	80.74 c
Dissolved Oxygen	mg/L	≥ 5.0 s	≥ 5.0 s	6.4
Flow (1/1/2014 - 1/1/2015)	MGD	-	≤ 10.0 a	6.423 a
Total Residual Chlorine	mg/L	≤ 0.01 s	≤ 0.01 s	< 0.03 Qd

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

a - Annual average

c - Value is calculated

d - measurement taken in the FDEP laboratory

Q - Sample held beyond normal holding time

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

River Oaks AWWTP	Units	Class III Criteria	Effluent Permit Limits EFD-01	Effluent Grab 3/23/15	Effluent Comp 3/23/15
Bromodichloromethane	ug/L	≤ 22.0 a	≤ 22.0 a	17	-
Chloroform	ug/L	≤ 470.8 a	-	62	-
Dibromochloromethane	ug/L	≤ 34.0 a	-	3.8	-
Ortho-phosphate	mg P/L	-	-	0.56	-
Total Phosphorus	mg P/L	-	-	0.60	0.59
Total Ammonia	mg N/L	-	-	0.033	0.032
Un-ionized Ammonia (calculated salinity)	mg N/L	≤ 0.02 s	-	< 0.02 c	-
Nitrate and Nitrite	mg N/L	-	-	0.010 I	0.012
Total Kjeldahl Nitrogen	mg N/L	-	-	0.95	1.0
Organic Nitrogen	mg N/L	-	-	0.92 c	1 c
Total Nitrogen	mg N/L	-	-	0.96 c	1 c
Total Organic Carbon	mg C/L	-	-	9.3	-
Chlorophyll *a* - Corrected	ug/L	-	-	0.55 U	-
Phaeophytin	ug/L	-	-	0.40 U	-
CBOD, 5 day, N - inhibited	mg/L	-	-	-	1.5 I
Total Suspended Solids	mg/L	-	-	-	2 I
Turbidity	NTU	< 29 t	-	0.95	-
Color (true)	PCU	-	-	11	-
Alkalinity	mg CaCO3/L	≥ 20	-	149 A	-
Chloride	mg Cl/L	-	-	110 A	-
Fluoride	mg F/L	≤ 10.0	-	0.41	-
Sulfate	mg SO4/L	-	-	89 A	-
Microbiology					
Fecal Coliforms [1]	cfu/100 mL	≤ 400 s #	-	1 U	-
Toxicity (Acute Definitive, percent LC50)					
Bioassay - Water flea *(Ceriodaphnia dubia)*	%	≥ 100	≥ 100	≥ 100	-
Bioassay - Fish *(Pimephales promelas)*	%	≥ 100	≥ 100	≥ 100	-

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

a - Annual average

c - Value is calculated

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

s - Single sample

t - Shall not exceed 29 NTUs above background

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

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

1 - Fecal coliform analysis performed by Advanced Environmental Laboratory, Tampa

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

River Oaks AWWTP	Units	Effluent Permit Limits EFD-01	Effluent Grab 3/23/15 Class III Criteria	Effluent Grab 3/23/15
Hardness	mg/L	-	-	205 c
Aluminum	ug/L	-	-	22
Arsenic	ug/L	-	≤ 50	0.98 I
Cadmium	ug/L	-	≤ 0.46 b	0.050 U
Calcium	mg/L	-	-	72.6
Chromium, Total [2]	ug/L	-	≤ 155 b	0.47 I
Copper	ug/L	-	≤ 17.2 b	1.51
Iron	ug/L	-	≤ 1,000	47 I
Lead	ug/L	-	≤ 7.91 b	0.20 U
Magnesium	mg/L	-	-	5.66
Nickel	ug/L	-	≤ 95.6 b	3.38
Potassium	mg/L	-	-	11.6
Selenium	ug/L	-	≤ 5.0	0.20 U
Silver	ug/L	-	≤ 0.07	0.025 U
Sodium	mg/L	-	-	85.5
Zinc	ug/L	-	≤ 220 b	31

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

c - Value is calculated

s - Single sample

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.

River Oaks AWWTP								
Location	**Test Species**	**AGP (measured)**	**Predicted AGP (TSIN) ± 20%**	**Predicted AGP (OP) ± 20%**	**Predicted AGP (TN) ± 20%**	**Predicted AGP (TP) ± 20%**	**Inorganic N:P ratio**	**Total N:P ratio**
Effluent Grab 3/23/15	*Pseudokirchneriella subcapitata*	8.92 A	1.6 ± 0.3	240.8 ± 48.2	36.5 ± 7.3	258 ± 51.6	0.1	1.6

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

Appendix A

Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event

Prepared By: Erica Cooper	**Contact Number:** 813-470-5906
Facility Name (as it appears on permit): River Oaks Advanced Wastewater Treatment Facility (AWWTF)	**Former Names:** **N/A**
NPDES Permit Number: FL0027821 (Major)	**Permit Expiration Date:** 12/20/2015
Physical Address: 8425 Sheldon Road Tampa, FL 33615	
District: SWD	**County:** Hillsborough
Function of Facility: The plant is operated to provide advanced wastewater treatment with high-disinfection, and also serves as a source plant for the Hillsborough County Northwest Master Reuse System (FL0041670)	
Facility Type: Type I activated sludge advanced domestic wastewater treatment plant	**Permitted Capacity (MGD):** 10.0 mgd

Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 6.423 mgd Annual Average from 01/2014-01/2015

If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): 0.914 mgd Annual Average from 01/2014-01/2015

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):

Monitoring Location Site Number	Description of Monitoring Location
EFA-01	After disinfection and prior to discharge to reuse system R-001 or dechlorination system.
EFB-01	After filtration and prior to disinfection.
EFD-01	After dechlorination and prior to discharge to Channel A D-001. .
FLW-01	Flow meter at the end of the chlorine contact chamber (Sutro Weir)
FLW-02	Flow meter after the chlorine contact chamber prior to the public access reuse
FLW-03	FLW-03 = (FLW-01) + (FLW-02)
INF-01	At headworks prior to any return flows
RMP-01	Quantity of biosolids transferred to Biosolids Treatment Facility.

This facility is covered by the South County Regional AWWTF, FL0028061, pretreatment program

Monitoring Location Site Number	Description of Monitoring Location
PRT-I	Influent sample at headworks prior to any return flows.
PRT-E	Effluent after disinfection.
PRT-R	Biosolids at the sludge blending tank.

Description of Permitted Outfall(s):

Outfall D-001 to Channel A and Rocky Creek/Channel G, then to Old Tampa Bay.

R001 Northwest Hillsborough County Master Re-use System

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

A headworks (with two mechanical bar screens and a back-up manual screen, grit removal, two Parshall flumes, and an odor control system), two primary sedimentation basins of 0.58 million gallons total volume and 7,900 square feet of total surface area, a grit removal and classifier system, one flow equalization basin of 10 million gallons, three aeration tanks of 2.04 million gallons total volume, three secondary sedimentation tanks of 1.91 million gallons total volume and 21,225 square feet of total surface area, two denitrification tanks of 2.08 million gallons total volume, three final sedimentation tanks of 2.28 million gallons total volume and 19,074 square feet of total surface area, eight dual-media bed filters of 2,080 square feet of total surface area, one filter backwash water holding tank of 75,000 gallons, one post aeration (pre-chlorination) tank of 140,000 gallons volume, one chlorine contact chamber of 125,000 gallons total volume using liquid sodium
hypochlorite, one sludge re-aeration tank of 0.40 million gallons, and one sludge blending tank.

Biosolids are pumped to the Northwest Regional Wastewater Reclamation Facility (NWRWRF) for further treatment and disposal.

The plant is operated to provide advanced wastewater treatment with high-disinfection to meet the requirements of the Grizzle-Figg requirements of Chapter 403 of the Florida Statutes. Effluent which is in excess of the reclaimed water needs of the reuse system, and/or effluent failing to meet Part III public access quality after the flow equalization basin is full, passes through a Sutro weir to a dechlorination basin where sodium bisulfite is applied. De-chlorinated effluent then passes to a final sampling location adjacent to the surface water outfall described below. Reclaimed water for reuse is diverted from the end of the chlorine contact chamber to a transfer pumping station from where it is delivered to the Hillsborough County Master Reuse System. Sodium Aluminate is added to the primary effluent stream for phosphorus removal. Methanol injection is available in the denitrification basins for process control. Sodium bisulfate is added to the dechlorination basin for chlorine removal.

During reject events, water from the filters will be routed to the backwash sump for transport to the 10 million gallon flow equalization tank for storage prior to re-treatment.

MODIFICATION:
Addition of glycerin feed and storage area to be used in denitrification basins for process control. Methanol injection and storage area to be retained as backup.

PART I: Continued

List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under

			Effluent Limitations				Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Annual Average**	**Monthly Average**	**Weekly Average**	**Single Sample**	**Monitoring Frequency**	**Sample Type**	**Monitoring Location Site Number**	**Notes**
Flow, to D-001	MGD	Maximum	10.0	Report	-	-	Continuous	Recording flow meters and totalizers	FLW-01	See Cond. I.A.3
BOD, Carbonaceous 5 day, 20C	MG/L	Maximum	5.0	6.25	7.5	10.0	5 days/week	24-hour FPC	EFA-01	
Solids, Total Suspended	MG/L	Maximum	5.0	6.25	7.5	10.0	5 days/week	24-hour FPC	EFA-01	
Solids, Total Suspended	MG/L	Maximum	-	-	-	5.0	5 days/week	Grab	EFB-01	
Nitrogen, Total (as N)	MG/L	Maximum	3.0	3.75	4.5	6.0	5 days/week	24-hour FPC	EFA-01	
Phosphorus, Total (as P)	MG/L	Maximum	1.0	1.25	1.5	2.0	5 days/week	24-hour FPC	EFA-01	
pH	SU	Range	-	-	-	6.0 to 8.5	Continuous	Meter	EFA-01	See Cond. I.A.4
Coliform, Fecal, % less than detection	PERCENT	Minimum	-	75	-	-	Monthly	Calculation	EFA-01	See Cond. I.A.5.
Coliform, Fecal	#/100ML	Maximum	-	-	-	25	5 days/week	Grab	EFA-01	See Cond. I.A.5.
Total Residual Chlorine (For Disinfection)	MG/L	Minimum	-	-	-	1.0	Continuous	Meter	EFA-01	See Cond. I.A.4 & 6
Total Residual Chlorine (For Dechlorination)	MG/L	Maximum	-	-	-	0.01	7 days/week	Grab	EFD-01	
Oxygen, Dissolved (DO)	MG/L	Minimum	-	-	-	5.0	7 days/week	Grab	EFD-01	
Dichlorobromomethane	UG/L	Maximum	47.0	-	-	Report	Monthly	Grab	EFD-01	
Whole Effluent Toxicity (Chronic)	Percent	Minimum	-	-	-	100	Quarterly	24-hour FPC	EFD-01	See Cond.I.A.9
Nitrogen, Total (as N)	Tons/Year	Maximum	Report (Ann. Total)	Report (Mo. Total)	-	-	Monthly	Calculation	EFA-01	See Cond.I.A.7.
Nitrogen, Total (as N)	Tons/Year	Maximum	Report (5Yr Avg.)	-	-	-	Monthly	Calculation	EFA-01	See Cond.I.A.7.

PART I: Continued

Receiving Waters:	**Classification (indicate whether fresh or marine):**
Channel A (Class III surface waters) and Rocky Creek then to Old Tampa Bay	Class III fresh waters, WBID No. 1507

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

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.
(2) The permittee shall conduct a daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and a fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.
(3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th ed., EPA-821-R-02-013 or the most current edition. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.
(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-013, Section 7 or the most current edition.

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.):
Administrative Order, AO-130-SW, was attached to permit issued December 21, 2010-intended to address effluent violations of Dichlorobromomethane, this was resolved with the acquisition of the mixing zone (see next section).

Facility Mixing Zone Details (if applicable):
The permittee is granted a mixing zone at D-001 for Dichlorobromomethane consisting of a distance of 3.66 meters wide centered over the outfall and extending 6.1 meters into Channel A.

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

Date	Parameter and Units	Limit	Result

Describe previous FYI and WQBEL study:
The previous FYI performed January 26, 2009 rated the facility Out of Compliance in two areas:

Facility Site Review

*Pieces of equipment were not functional at the time of inspection

a. One denitrified sludge pump (#3206);
b. One leaking check valve for a denitrified sludge pump tanks(# 3205);
c. The valve to isolate the reclaimed water wet well; this appears critical, as it affect~ the cleaning of the wet well as required by the operating protocol; and
d. SRT blower number three.

Effluent Quality

*Discharge Monitoring Reports submitted from January through December 2008 were reviewed. The following results exceeded the limits imposed by the permit for outfall DOOl: the daily maximum limit of 10.0 mg/L for CBOD was exceeded once in August and twice in November 2008; the single sample limit of 6.0 mg/L for total nitrogen was exceeded once October 2008; and the minimum total chlorine residual for disinfection of 1.0 mg/L was not met for one day in May, October and December 2008.

Describe previous or current Enforcement Actions (including WLs):
N/A

Describe any violations or problems noted in previous inspection:

N/A

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

DMR trends in the last five years have been improving; see below, the exceedances which occurred over the past 5 years. Note that no exceedances have occurred for over a year.

Date	Monitoring Group	Parameter	Description	Result	Limit	Units	Statistical Base
3/31/2012	EFD-01	P TRP3B	IC25 Statre 7day Chr Ceriodaphnia	70.7	100	percent	ME - Minimum
11/30/2012	EFA-01	P 50060	Chlorine, Total Residual	0.13	1.0	MG/L	ME - Minimum
12/31/2012	EFD-01	P 00600	Nitrogen, Total	8.549	6.0	MG/L	MB - Maximum
1/31/2013	EFA-01	P 50060	Chlorine, Total Residual	0.72	1.0	MG/L	ME - Minimum
5/31/2013	EFA-01	P 74055	Coliform, Fecal	96	25	#/100ML	MB - Maximum
6/30/2013	EFD-01	P 50060	Chlorine, Total Residual	3.44	0.1	MG/L	MB - Maximum
11/30/2013	EFB-01	P 00530	Solids, Total Suspended	10.1	5.0	MG/L	MB - Maximum

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

According to the most recent Effluent Analysis of Hillsborough County Master Reuse System, no exceedances have occurred

Appendix B

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 C

Chemical analysis of effluent

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	AGP/LN	Algal Growth Potential	8.92 A	mg DryWt/L	0.3	0.9
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.55 U	ug/L	0.55	1.7
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40 U	ug/L	0.4	1.2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Overflow	Fecal Coliforms-Membrane Filter	1 U	cfu/100 mL	1	1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Zinc	31	ug/L	5	20
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Cadmium	0.050 U	ug/L	0.05	0.2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Silver	0.025 U	ug/L	0.025	0.1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Selenium	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Arsenic	0.98 I	ug/L	0.25	1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Copper	1.51	ug/L	0.5	1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Iron	47 I	ug/L	30	120
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Nickel	3.38	ug/L	0.25	1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Chromium	0.47 I	ug/L	0.3	1.2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Sodium	85.5	mg/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Magnesium	5.66	mg/L	0.04	0.16
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Aluminum	22	ug/L	5	20
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Lead	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Potassium	11.6	mg/L	0.3	1.2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Metals	Calcium	72.6	mg/L	0.075	0.3
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Kjeldahl Nitrogen	0.95	mg N/L	0.08	0.2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Color (true)	11	PCU	2.5	6
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	NO2NO3-N	0.010 I	mg N/L	0.004	0.01
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Alkalinity	149 A	mg CaCO3/L	0.65	2.5
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Total-P	0.60	mg P/L	0.005	0.05
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Ammonia-N	0.033	mg N/L	0.002	0.005
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Turbidity	0.95	NTU	0.1	0.1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	O-Phosphate-P	0.56	mg P/L	0.04	0.1

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Organic Carbon	9.3	mg C/L	1	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Fluoride	0.41	mg F/L	0.035	0.1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Sulfate	89 A	mg SO4/L	0.4	1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Chloride	110 A	mg Cl/L	0.4	1
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Fonofos	0.010 U	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Acetaminophen	0.0020 U	ug/L	0.002	0.01
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Alachlor	0.060 U	ug/L	0.06	0.24
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Prometryn	0.020 U	ug/L	0.02	0.08
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Butylate	0.020 U	ug/L	0.02	0.08
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Disulfoton	0.0050 U	ug/L	0.005	0.02
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Fenamiphos	0.030 UJ	ug/L	0.03	0.12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Diazinon	0.010 U	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Chlorpyrifos Methyl	0.010 UJ	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Ethion	0.010 U	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Hexazinone	0.030 UJ	ug/L	0.03	0.12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Metribuzin	0.020 U	ug/L	0.02	0.08
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Mevinphos	0.010 U	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Prometon	0.020 U	ug/L	0.02	0.08
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Parathion Methyl	0.010 U	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Ethoprop	0.0050 U	ug/L	0.005	0.02
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Atrazine Desethyl	0.075	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Azinphos Methyl	0.020 U	ug/L	0.02	0.08
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Chlorpyrifos Ethyl	0.010 UJ	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Naled	0.040 U	ug/L	0.04	0.16
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Simazine	0.010 U	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Sucralose	44	ug/L	1	5
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Demeton	0.024 U	ug/L	0.024	0.096
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Bromacil	0.040 U	ug/L	0.04	0.16
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Atrazine	0.041	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Metalaxyl	0.040 UJ	ug/L	0.04	0.16
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Atrazine Desisopropyl	0.018 U	ug/L	0.018	0.072
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Phorate	0.0050 U	ug/L	0.005	0.02
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Parathion Ethyl	0.020 U	ug/L	0.02	0.08
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Metolachlor	0.060 U	ug/L	0.06	0.24
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Malathion	0.010 UJ	ug/L	0.01	0.04

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Ametryn	0.010 U	ug/L	0.01	0.04
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Norflurazon	0.030 U	ug/L	0.03	0.12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Pesticides	Carbamazepine	0.42	ug/L	0.002	0.01
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2,4-Dimethylphenol	9.9 U	ug/L	9.9	40
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40 U	ug/L	40	160
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 U	ug/L	2	7.9
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0 U	ug/L	3	12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Dibromochloromethane	3.8	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Vinyl chloride	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2,4-Dinitrotoluene	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0 U	ug/L	2	7.9
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Butyl benzyl phthalate	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0 U	ug/L	3	12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Naphthalene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Trichloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Anthracene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Dimethyl phthalate	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Pyrene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Bromodichloromethane	17	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Bromomethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Tetrachloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Hexachlorobenzene	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Benzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Chloromethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Methylene chloride	1.0 U	ug/L	1	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Toluene	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2,6-Dinitrotoluene	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.99 U	ug/L	0.99	4

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0 U	ug/L	3	12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Fluorene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Hexachloroethane	3.0 U	ug/L	3	12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0 U	ug/L	2	7.9
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Phenol	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2,4-Dinitrophenol	15 U	ug/L	15	59
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2-Nitrophenol	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Acenaphthylene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Benzo(a)pyrene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Diethyl phthalate	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Chrysene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Di-n-butyl phthalate	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Hexachlorobutadiene	3.0 U	ug/L	3	12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Phenanthrene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Chloroform	62	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Ethylbenzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	4-Nitrophenol	15 U	ug/L	15	59
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Benzidine	99 U	ug/L	99	400
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Benzo(a)anthracene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Isophorone	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	7.9
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Nitrobenzene	2.0 U	ug/L	2	7.9
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	ug/L	0.2	0.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2,4-Dichlorophenol	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2-Chloronaphthalene	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2-Chlorophenol	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 U	ug/L	3	12
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Acenaphthene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Di-n-octyl phthalate	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Fluoranthene	0.20 U	ug/L	0.2	0.79
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Pentachlorophenol	0.99 U	ug/L	0.99	4
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Bromoform	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Chlorobenzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	Chloroethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Dissolved Oxygen	6.44	mg/L		
3/23/2015 10:05	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	pH	7.27			
3/23/2015 6:00	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Temperature	26.83	C		
3/23/2015 6:00	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Specific Conductance	827	umhos/cm		
3/23/2015 6:00	EFD-01 Rivers Oaks FYI3 AWWTP	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.5 I	mg/L	0.2	2
3/23/2015 6:00	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	TSS	2 I	mg/L	2	10
3/23/2015 6:00	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	NO2NO3-N	0.012	mg N/L	0.004	0.01
3/23/2015 6:00	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Ammonia-N	0.032	mg N/L	0.002	0.005
3/23/2015 10:15	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Kjeldahl Nitrogen	1.0	mg N/L	0.08	0.2
3/23/2015 10:15	EFD-01 Rivers Oaks FYI3 AWWTP	Nutrients	Total-P	0.59	mg P/L	0.005	0.05
3/23/2015 10:15	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.3
3/23/2015 10:15	Field Blank	Metals	Lead	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Metals	Zinc	5.0 U	ug/L	5	20
3/23/2015 10:15	Field Blank	Metals	Chromium	0.30 U	ug/L	0.3	1.2
3/23/2015 10:15	Field Blank	Metals	Arsenic	0.25 U	ug/L	0.25	1
3/23/2015 10:15	Field Blank	Metals	Aluminum	5.0 U	ug/L	5	20
3/23/2015 10:15	Field Blank	Metals	Sodium	0.50 U	mg/L	0.5	2
3/23/2015 10:15	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
3/23/2015 10:15	Field Blank	Metals	Iron	30 U	ug/L	30	120
3/23/2015 10:15	Field Blank	Metals	Silver	0.025 U	ug/L	0.025	0.1

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:15	Field Blank	Metals	Nickel	0.25 U	ug/L	0.25	1
3/23/2015 10:15	Field Blank	Metals	Potassium	0.30 U	mg/L	0.3	1.2
3/23/2015 10:15	Field Blank	Metals	Copper	0.50 U	ug/L	0.5	1
3/23/2015 10:15	Field Blank	Metals	Cadmium	0.050 U	ug/L	0.05	0.2
3/23/2015 10:15	Field Blank	Metals	Selenium	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.1	0.1
3/23/2015 10:15	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.08	0.2
3/23/2015 10:15	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.002	0.005
3/23/2015 10:15	Field Blank	Nutrients	Chloride	0.80	mg Cl/L	0.2	0.5
3/23/2015 10:15	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.002	0.005
3/23/2015 10:15	Field Blank	Nutrients	Sulfate	0.20 I	mg SO4/L	0.2	0.5
3/23/2015 10:15	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.004	0.01
3/23/2015 10:15	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6
3/23/2015 10:15	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
3/23/2015 10:15	Field Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.1
3/23/2015 10:15	Field Blank	Nutrients	Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
3/23/2015 10:15	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.5	1
3/23/2015 10:15	Field Blank	Pesticides	Chlorpyrifos Methyl	0.0099 UJ	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Fenamiphos	0.030 UJ	ug/L	0.03	0.12
3/23/2015 10:15	Field Blank	Pesticides	Parathion Ethyl	0.020 U	ug/L	0.02	0.079
3/23/2015 10:15	Field Blank	Pesticides	Ametryn	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Disulfoton	0.0050 U	ug/L	0.005	0.02
3/23/2015 10:15	Field Blank	Pesticides	Metalaxyl	0.040 UJ	ug/L	0.04	0.16
3/23/2015 10:15	Field Blank	Pesticides	Naled	0.040 U	ug/L	0.04	0.16
3/23/2015 10:15	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.0099 UJ	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Metolachlor	0.059 U	ug/L	0.059	0.24
3/23/2015 10:15	Field Blank	Pesticides	Mevinphos	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Parathion Methyl	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Carbamazepine	0.0020 U	ug/L	0.002	0.01
3/23/2015 10:15	Field Blank	Pesticides	Atrazine	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Bromacil	0.040 U	ug/L	0.04	0.16
3/23/2015 10:15	Field Blank	Pesticides	Hexazinone	0.030 UJ	ug/L	0.03	0.12
3/23/2015 10:15	Field Blank	Pesticides	Malathion	0.0099 UJ	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Phorate	0.0050 U	ug/L	0.005	0.02
3/23/2015 10:15	Field Blank	Pesticides	Atrazine Desethyl	0.0099 U	ug/L	0.0099	0.04

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:15	Field Blank	Pesticides	Demeton	0.024 U	ug/L	0.024	0.095
3/23/2015 10:15	Field Blank	Pesticides	Prometon	0.020 U	ug/L	0.02	0.079
3/23/2015 10:15	Field Blank	Pesticides	Sucralose	0.010 U	ug/L	0.01	0.05
3/23/2015 10:15	Field Blank	Pesticides	Atrazine Desisopropyl	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Butylate	0.020 U	ug/L	0.02	0.079
3/23/2015 10:15	Field Blank	Pesticides	Diazinon	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Ethion	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Simazine	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Fonofos	0.0099 U	ug/L	0.0099	0.04
3/23/2015 10:15	Field Blank	Pesticides	Prometryn	0.020 U	ug/L	0.02	0.079
3/23/2015 10:15	Field Blank	Pesticides	Acetaminophen	0.0020 U	ug/L	0.002	0.01
3/23/2015 10:15	Field Blank	Pesticides	Alachlor	0.059 U	ug/L	0.059	0.24
3/23/2015 10:15	Field Blank	Pesticides	Azinphos Methyl	0.020 U	ug/L	0.02	0.079
3/23/2015 10:15	Field Blank	Pesticides	Ethoprop	0.0050 U	ug/L	0.005	0.02
3/23/2015 10:15	Field Blank	Pesticides	Metribuzin	0.020 U	ug/L	0.02	0.079
3/23/2015 10:15	Field Blank	Pesticides	Norflurazon	0.030 U	ug/L	0.03	0.12
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Fluorene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0 U	ug/L	2	7.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	7.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9 U	ug/L	2.9	12
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	ug/L	1	4
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.9 U	ug/L	2.9	12
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Hexachloroethane	2.9 U	ug/L	2.9	12
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Phenol	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Toluene	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.98 U	ug/L	0.98	3.9

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 U	ug/L	2	7.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Isophorone	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Bromomethane	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	ug/L	2.9	12
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Anthracene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Benzidine	98 U	ug/L	98	390
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9 U	ug/L	2.9	12
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Benzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Chloroethane	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Acenaphthene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9 U	ug/L	2.9	12
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Chloromethane	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0 U	ug/L	2	7.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.20 U	ug/L	0.2	0.78

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Chrysene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Diethyl phthalate	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Phenanthrene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Chloroform	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	39 U	ug/L	39	160
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Naphthalene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.8 U	ug/L	9.8	39
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15 U	ug/L	15	59
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	4-Nitrophenol	15 U	ug/L	15	59
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Fluoranthene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.98 U	ug/L	0.98	3.9
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Nitrobenzene	2.0 U	ug/L	2	7.8
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Pyrene	0.20 U	ug/L	0.2	0.78
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:15	Field Blank	Priority Organic Pollutants	Bromoform	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	Field Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.98 U	ug/L	0.98	3.9
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Dibromochloromethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Chloroform	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Chloroethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Chlorobenzene	0.20 U	ug/L	0.2	0.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	MDL	PQL
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Benzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Vinyl chloride	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Bromodichloromethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Bromomethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Chloromethane	0.50 U	ug/L	0.5	2
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	ug/L	0.5	2
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Tetrachloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Toluene	0.50 U	ug/L	0.5	2
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Ethylbenzene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Methylene chloride	1.0 U	ug/L	1	4
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Bromoform	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	Trichloroethene	0.20 U	ug/L	0.2	0.8
3/23/2015 10:05	TRIP BLANK	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	ug/L	0.5	2

EPA End Sheet

The Bioassay of River Oaks AWWTF effluent sampled on March 23, 2015. NPDES #FL0027821.

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 FL0027821	11 12 150323	18 B	19 S	20 1

Remarks

66

The Priority Pollutants Analysis of River Oaks AWWTF effluent sampled on March 23, 2015. NPDES #FL0027821.

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 FL0027821	11 12 150323	18 X	19 S	20 1

Remarks

66

Biological Analyses of River Oaks AWWTF effluent sampled on March 23, 2015. NPDES #FL0027821.

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 FL0027821	11 12 150323	18 S	19 S	20 1

Remarks

66