

Effluent Quality Assessment

U. S. Agri-Chemicals Corporation-Fort Meade Chemical Complex

Polk County

NPDES #FL0001902

Sampled July 14, 16 and 18, 2014

October 2014

Biology Section
Bureau of Laboratories
Division of Environmental Assessment and Restoration
2014 FDEP Bureau of Labs Quality Manual
NELAC Certification No. E31780

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U. S. Agri-Chemicals Corporation-Fort Meade Chemical Complex, 3225 State Road 630 West, Fort Meade, Polk County, Florida, 33841-9799. NPDES #FL0001902.

Facility Overview

U. S. Agri-Chemicals Corporation-Fort Meade Chemical Complex is a fertilizer chemical plant with phosphogypsum storage. It was permanently closed in November 2005, but still functions as a wastewater treatment facility for the phosphogypsum stack. See Appendix A for a description of the facility, summary of permit limits, Administrative Order (AO) and Discharge Monitoring Report (DMR) information.

Methods

Effluent composite samples for toxicity testing were collected on July 14, 2014, July 16, 2014, and July 18, 2014. Effluent grab/composite samples for biological and chemical analyses for this facility were collected on July 14, 2014. All samples were collected from the EFF-04 NPDES sampling point for Outfall D-004 by Anthony Annibali (FDEP Southwest District DWRM Phosphate Management) following DEP-SOP-001/01 FS 2400 Wastewater Sampling (see Appendix B).

The 7 day chronic definitive toxicity tests and algal growth potential test were performed following internal DEP SOPs TA07_05, TA07_09, and TA08_01 through TA08_09 (see Appendix B).

Results

Chemistry Results (See Table 1 and Appendix C)

- The total ammonia concentration in the composite sample collected and preserved for chemical analysis was 0.26 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.
- The dissolved oxygen (DO) concentration measured in each of the three effluent samples when collected was less than the Freshwater Surface Water Criteria for DO (FAC 62-302.533 (a)(2)) and/or the permitted limit (≥ 5.0 mg/L). It should be noted that the DO in each of the effluent bioassay samples was ≥ 7.0 mg/L as measured upon receipt in the bioassay laboratory.
- Specific conductance, turbidity, alkalinity, fluoride, arsenic, and nickel 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. Carbonaceous biochemical oxygen demand (CBOD), chromium, iron, and selenium were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL).

Algal Growth Potential (See Table 2a and 2b and Appendix C)

- The effluent Algal Growth Potential (AGP) was 27.3 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 July 15 - 22, 2014.

Ceriodaphnia dubia 7-day chronic definitive bioassay –	IC25: > 100% NOEC: 100%
Pimephales promelas 7-day chronic definitive bioassay –	IC25: > 100% NOEC: 100%

*NOTE: 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.

- The bioassay samples did not show chronic toxicity to the test organisms.

Conclusion

The effluent samples collected from the EFF-04 NPDES sampling point for this facility on July 14, 2014, July 16, 2014 and July 18, 2014, were not chronically toxic to either test species during the 7-day chronic 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 dissolved oxygen concentrations as measured during each of the sampling events were less than the permitted limit. Additional effluent water quality samples collected on July 14, 2014, 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. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. 4th edition. EPA-821-R-02-013.

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

U.S. Agri-Chemicals Corporation - Fort Meade Chemical Complex	Units	Class III Criteria	Effluent Permit Limits	Effluent Outfall 004 7/14/14	Effluent Outfall 004 7/16/14	Effluent Outfall 004 7/18/14
Temperature	°C	-	Report	26.37	25.83	25.75
pH	SU	6.0 - 8.5	6.0 - 8.5	7	7	7
Specific Conductance	umhos/cm	≤ 1,275	≤ 2,200	1847	1766	1922
Salinity	ppth	-	-	0.9 c	0.9 c	0.9 c
Dissolved Oxygen	% saturation	≥ 38	-	23.6 e	55.2	12.4 e
Dissolved Oxygen	mg/L	-	≥ 5.0	1.89 e	4.51 e	1.01 e
Flow	MGD	-	≤ 8.5	7.7	8.3	9.1
Total Residual Chlorine	mg/L	≤ 0.01	-	< 0.03 QU[1]	< 0.03 QU[1]	< 0.03 QU[1]

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

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

c - Value is calculated

Q - Sample held beyond normal holding time

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

1 - Measurement taken in the FDEP laboratory

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

U.S. Agri-Chemicals Corporation - Fort Meade Chemical Complex	Units	Class III Criteria	Effluent Permit Limits	Effluent Outfall 004 7/14/14
Ortho-phosphate	mg P/L	-	Report	1.2
Total Phosphorus	mg P/L	-	Report	1.4
Total Ammonia	mg N/L	-	Report	0.26
Un-ionized Ammonia	mg/L	≤ 0.02 s	≤ 0.02 s	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	2.2
Total Kjeldahl Nitrogen	mg N/L	-	-	0.89
Organic Nitrogen	mg N/L	-	-	0.63 c
Total Nitrogen	mg N/L	-	Report	3.1 c
Total Organic Carbon	mg C/L	-	-	7.1
Chlorophyll *a* - Corrected	µg/L	-	-	1.1 I
Phaeophytin	µg/L	-	-	1.0 I
CBOD, 5 day, N - inhibited	mg/L	-	-	0.87 I
Hardness	mg/L as $CaCO_3$	-	-	356 c
Total Suspended Solids	mg/L	-	-	2 U
Turbidity	NTU	< 29 t	< 29 t	1.6
Color (true)	PCU	-	-	14
Alkalinity	mg CaCO3/L	≥ 20	-	98
Chloride	mg Cl/L	-	-	18
Fluoride	mg F/L	≤ 10.0	≤ 10.0	4.3
Sulfate	mg SO4/L	-	Report	780
Oils and Greases	mg/L	≤ 5.0	-	0.74 U
Alpha, Total	PCI/L	≤ 15	≤ 15	-
Radium 226 + 228	PCI/L	≤ 5	≤ 5	-
Toxicity (Chronic definitive IC25)				
Bioassay - Water flea *(Ceriodaphnia dubia)*	%	≥ 100	≥ 100	> 100
Bioassay - Fish (*Pimephales promelus*)	%	≥ 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
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit

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

U.S. Agri-Chemicals Corporation - Fort Meade Chemical Complex	Units	Class III Criteria	Effluent Permit Limits	Effluent Outfall 004
Aluminum	µg/L	-	-	99
Arsenic	µg/L	≤ 50	-	12.5
Cadmium	µg/L	≤ 0.693 b	-	0.050 U
Calcium	mg/L	-	-	108
Chromium, Total [g]	µg/L	≤ 244 b	-	0.42 I
Copper	µg/L	≤ 27.6 b	-	0.50 U
Iron	µg/L	≤ 1,000	-	90 I
Lead	µg/L	≤ 16 b	-	0.20 U
Magnesium	mg/L	-	-	20.9
Nickel	µg/L	≤ 153 b	-	4.09
Potassium	mg/L	-	-	42.6
Selenium	µg/L	≤ 5.0	-	0.73 I
Silver	µg/L	≤ 0.07	-	0.025 U
Sodium	mg/L	-	-	249
Zinc	µg/L	≤ 351 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))
g - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit

Table 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

U.S. Agri-Chemicals Corporation - Fort Meade Chemical Complex								
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 Outfall 004	*Pseudokirchneriella subcapitata*	27.3	93.5 ± 18.7	516 ± 103.2	117.4 ± 23.5	602 ± 120.4	2.1	2.2

Fresh - freshwater species *Pseudokirchneriella subcapitata*

Appendix A
Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Anthony Annibali	**Contact Number:** (813)-470-5917
Facility Name (as it appears on permit): U.S. Agri-Chemicals Coporation-Fort Meade Chemical Complex	**Former Names:**
NPDES Permit Number: FL0001902	**Permit Expiration Date:** 4/28/2015
Physical Address: 3225 State Road 630 West, Fort Meade, FL 33841-9799	
District: FDEP SWD DWRM-Phosphate Management	**County:** Polk
Function of Facility: Permanently closed in November 2005 and all manufacturing operations at this facility were discontinued. When operating, the facility manufactured sulfuric acid, mono-ammonium phosphate, diammonium phosphate, and fluosilicic acid. Other operations previously included phosphogypsum storage, process material handling, and product shipping facilities.	
Facility Type: Fertilizer Chemical Plant: Phosphogypsum Stack	**Permitted Capacity (MGD):** N/A
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 7.99 MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): N/A	
Description of type of Discharge: ☒ **Continuous** ☐ **Intermittent** ☒ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify**	

Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): EFF-002, EFF-004, EFF-005, EFF-006, EF-007 (only EFF-04 sampled during this event)
Description of Permitted Outfall(s): Outfall D-004 is a rectangular weir at a drop inlet culvert system
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): The closure of the Phosphogypsum stack and cooling pond system at the Fort Meade Complex uses a two-stage lime treatment system to treat process wastewater. The treatment system has a design capacity of 4 million gallons/day and is comprised of a series of silos, tanks, and in-ground sludge separation units. The treatment system also includes an intermediate treatment system that utilizes part of the double lime treated water to produce a solid byproduct that is packaged and sold as an animal feed ingredient. The treated wastewater is then pumped from the treatment system to a polishing pond and mixed with deep well groundwater prior to being discharged through Outfall D-004 into McCullough Creek and through Outfall D-002 into Mill Branch. Outfall D-002 is a stormwater outfall that may operate on an as needed basis for the dishcharge of treated process water. The use of Outfall D-002 is limited to the auxiliary discharge of treated process water or when Outfall D-004 is out of service.

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Daily Minimum	Monthly Average	Daily Maximum	Monitoring Frequency	Sample Type	Sample Points
Flow (MGD)	N/A	Report	Report	Continuous	Recorder	EFF-002, EFF-004
pH (SU) (See Condition I.A.10.)	6.0	Report	8.5	Continuous	Recorder	EFF-002, EFF-004
Temperature (C), Water (DEG.C) (See Condition I.A.10.)	N/A	Report	Report	Weekly	Grab	EFF-002, EFF-004
Specific Conductance (UMHOS/CM) (See Condition I.A.11.a.)	N/A	Report	2200 (Interim*)	Weekly	Grab	EFF-002, EFF-004
Turbidity (NTU) (See Condition I.A.12.)	N/A	Report	29	Weekly	Grab	EFF-002, EFF-004
Oxygen, Dissolved (DO) (MG/L)	5.0	Report	N/A	Weekly	Grab	EFF-002, EFF-004
Fluoride, Total (as F) (MG/L)	N/A	Report	10.0	Weekly	Grab	EFF-002, EFF-004
Sulfate, Total (MG/L)	N/A	Report	Report	Weekly	Grab	EFF-002, EFF-004
Nitrogen, Ammonia, Total (as N) (MG/L) (See Condition I.A.10.)	N/A	Report	Report	Weekly	Grab	EFF-002, EFF-004
Ammonia, Un-ionized (as NH_3) (MG/L) (See Condition I.A.10.)	N/A	Report	0.02	Weekly	Calculated	EFF-002, EFF-004
Phosphate, Ortho (as P) (MG/L)	N/A	Report	Report	Weekly	Grab	EFF-002, EFF-004
Phosphorus, Total (as P) (MG/L)	N/A	Report	Report	Weekly	Grab	EFF-002, EFF-004
Phosphorus, Total (as P) (LBS/DAY) (See Conditions I.A.6., I.A.7., & I.A.9.)	N/A	Report	Report	Weekly	Calculated	EFF-002, EFF-004
Nitrogen, Total (as N) (MG/L)	N/A	Report	Report	Weekly	Grab	EFF-002, EFF-004
Nitrogen, Total (as N) (LBS/DAY) (See Conditions I.A.6., I.A.7., & I.A.9.)	N/A	Report	Report	Weekly	Calculated	EFF-002, EFF-004
Alpha, Gross Particle Activity (PCI/L) (See Condition I.A.5.)	N/A	N/A	15.0	Monthly	Grab	EFF-002, EFF-004
Radium^{226} + Radium^{228}, Combined (PCI/L) (See Condition I.A.5.)	N/A	N/A	5.0	Monthly	Grab	EFF-002, EFF-004

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 Analyses of Effluent

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
7/14/2014 11:01	Outfall 004	AGP/LN	Algal Growth Potential	27.3	mg DryWt/L	0.3	0.9
7/14/2014 11:01	Outfall 004	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.0 I	ug/L	0.4	1.2
7/14/2014 11:00	Outfall 004	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.87 I	mg/L	0.2	2
7/14/2014 11:01	Outfall 004	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.1 I	ug/L	0.55	1.7
7/14/2014 11:00	Outfall 004	Toxicology	Bioassay-Chron-Def-FW-Fish, NOEC	100	NOEC		
7/14/2014 11:00	Outfall 004	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	100 L	IC25		
7/14/2014 11:00	Outfall 004	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	100 L	IC25		
7/14/2014 11:00	Outfall 004	Toxicology	Bioassay-Chron-Def-FW-C.dubia, NOEC	100	NOEC		
7/14/2014 11:35	Outfall 004	Metals	Silver	0.025 U	ug/L	0.025	0.1
7/14/2014 11:35	Outfall 004	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
7/14/2014 11:35	Outfall 004	Metals	Arsenic	0.25 U	ug/L	0.25	1
7/14/2014 11:35	Outfall 004	Metals	Cadmium	0.050 U	ug/L	0.05	0.2
7/14/2014 11:35	Outfall 004	Metals	Lead	0.20 U	ug/L	0.2	0.8
7/14/2014 11:35	Outfall 004	Metals	Nickel	0.25 U	ug/L	0.25	1
7/14/2014 11:35	Outfall 004	Metals	Calcium	0.075 U	mg/L	0.075	0.3
7/14/2014 11:35	Outfall 004	Metals	Sodium	0.50 U	mg/L	0.5	2
7/14/2014 11:35	Outfall 004	Metals	Zinc	5.0 U	ug/L	5	20
7/14/2014 11:35	Outfall 004	Metals	Selenium	0.20 U	ug/L	0.2	0.8
7/14/2014 11:01	Outfall 004	Metals	Arsenic	12.5	ug/L	0.25	1
7/14/2014 11:01	Outfall 004	Metals	Copper	0.50 U	ug/L	0.5	1
7/14/2014 11:01	Outfall 004	Metals	Nickel	4.09	ug/L	0.25	1
7/14/2014 11:35	Outfall 004	Metals	Iron	30 U	ug/L	30	120
7/14/2014 11:35	Outfall 004	Metals	Potassium	0.30 U	mg/L	0.3	1.2
7/14/2014 11:01	Outfall 004	Metals	Calcium	108	mg/L	0.075	0.3
7/14/2014 11:01	Outfall 004	Metals	Magnesium	20.9	mg/L	0.04	0.16
7/14/2014 11:01	Outfall 004	Metals	Zinc	5.0 U	ug/L	5	20
7/14/2014 11:01	Outfall 004	Metals	Selenium	0.73 I	ug/L	0.2	0.8
7/14/2014 11:01	Outfall 004	Metals	Silver	0.025 U	ug/L	0.025	0.1
7/14/2014 11:01	Outfall 004	Metals	Potassium	42.6	mg/L	1.5	6
7/14/2014 11:01	Outfall 004	Metals	Aluminum	99	ug/L	5	20
7/14/2014 11:35	Outfall 004	Metals	Chromium	0.30 U	ug/L	0.3	1.2
7/14/2014 11:01	Outfall 004	Metals	Iron	90 I	ug/L	30	120
7/14/2014 11:35	Outfall 004	Metals	Aluminum	5.0 U	ug/L	5	20

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
7/14/2014 11:35	Outfall 004	Metals	Copper	0.50 U	ug/L	0.5	1
7/14/2014 11:01	Outfall 004	Metals	Sodium	249	mg/L	2.5	10
7/14/2014 11:01	Outfall 004	Metals	Cadmium	0.050 U	ug/L	0.05	0.2
7/14/2014 11:01	Outfall 004	Metals	Chromium	0.42 I	ug/L	0.3	1.2
7/14/2014 11:01	Outfall 004	Metals	Lead	0.20 U	ug/L	0.2	0.8
7/14/2014 11:01	Outfall 004	Nutrients	Turbidity	1.6	NTU	0.1	0.1
7/14/2014 11:35	Outfall 004	Nutrients	Chloride	0.20 U	mg Cl/L	0.2	0.5
7/14/2014 11:01	Outfall 004	Nutrients	Fluoride	4.3	mg F/L	0.035	0.1
7/14/2014 11:35	Outfall 004	Nutrients	Color (true)	2.5 UY	PCU	2.5	6
7/14/2014 11:35	Outfall 004	Nutrients	Sulfate	0.20 UY	mg SO4/L	0.2	0.5
7/14/2014 11:35	Outfall 004	Nutrients	NO2NO3-N	0.004 UY	mg N/L	0.004	0.01
7/14/2014 11:35	Outfall 004	Nutrients	Total-P	0.002 UY	mg P/L	0.002	0.005
7/14/2014 11:35	Outfall 004	Nutrients	Organic Carbon	0.50 UY	mg C/L	0.5	1
7/14/2014 11:01	Outfall 004	Nutrients	NO2NO3-N	2.2	mg N/L	0.04	0.1
7/14/2014 11:01	Outfall 004	Nutrients	O-Phosphate-P	1.2	mg P/L	0.04	0.1
7/14/2014 11:00	Outfall 004	Nutrients	TSS	2 U	mg/L	2	10
7/14/2014 11:35	Outfall 004	Nutrients	Alkalinity	0.65 UY	mg CaCO3/L	0.65	2.5
7/14/2014 11:01	Outfall 004	Nutrients	Alkalinity	98	mg CaCO3/L	0.65	2.5
7/14/2014 11:01	Outfall 004	Nutrients	Sulfate	780	mg SO4/L	2	5
7/14/2014 11:01	Outfall 004	Nutrients	Total-P	1.4	mg P/L	0.025	0.25
7/14/2014 11:35	Outfall 004	Nutrients	Ammonia-N	0.002 UY	mg N/L	0.002	0.005
7/14/2014 11:35	Outfall 004	Nutrients	O-Phosphate-P	0.004 UY	mg P/L	0.004	0.01
7/14/2014 11:01	Outfall 004	Nutrients	Color (true)	14	PCU	2.5	6
7/14/2014 11:01	Outfall 004	Nutrients	Organic Carbon	7.1	mg C/L	0.5	1
7/14/2014 11:35	Outfall 004	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.1
7/14/2014 11:01	Outfall 004	Nutrients	Ammonia-N	0.26	mg N/L	0.01	0.025
7/14/2014 11:35	Outfall 004	Nutrients	Kjeldahl Nitrogen	0.080 UY	mg N/L	0.08	0.2
7/14/2014 11:01	Outfall 004	Nutrients	Chloride	18	mg Cl/L	2	5
7/14/2014 11:35	Outfall 004	Nutrients	Turbidity	0.30 Y	NTU	0.1	0.1
7/14/2014 11:01	Outfall 004	Nutrients	Kjeldahl Nitrogen	0.89	mg N/L	0.08	0.2
7/14/2014 11:35	Outfall 004	Overflow	Oil and Grease	0.75 U	mg/L	0.75	2.7
7/14/2014 11:01	Outfall 004	Overflow	Oil and Grease	0.74 U	mg/L	0.74	2.7
7/14/2014 11:01	Outfall 004	Pesticides	Naled	0.039 UJ	ug/L	0.039	0.15
7/14/2014 11:01	Outfall 004	Pesticides	Parathion Ethyl	0.019 U	ug/L	0.019	0.077
7/14/2014 11:35	Outfall 004	Pesticides	Metolachlor	0.065 UY	ug/L	0.065	0.26
7/14/2014 11:01	Outfall 004	Pesticides	Malathion	0.0097 U	ug/L	0.0097	0.039

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
7/14/2014 11:01	Outfall 004	Pesticides	Metolachlor	0.058 U	ug/L	0.058	0.23
7/14/2014 11:01	Outfall 004	Pesticides	Metribuzin	0.019 U	ug/L	0.019	0.077
7/14/2014 11:01	Outfall 004	Pesticides	Parathion Methyl	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:01	Outfall 004	Pesticides	Phorate	0.0048 U	ug/L	0.0048	0.019
7/14/2014 11:01	Outfall 004	Pesticides	Prometon	0.019 U	ug/L	0.019	0.077
7/14/2014 11:01	Outfall 004	Pesticides	Simazine	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:35	Outfall 004	Pesticides	Ethoprop	0.0054 UY	ug/L	0.0054	0.022
7/14/2014 11:35	Outfall 004	Pesticides	Hexazinone	0.033 UYJ	ug/L	0.033	0.13
7/14/2014 11:35	Outfall 004	Pesticides	Simazine	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:01	Outfall 004	Pesticides	Chlorpyrifos Ethyl	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:35	Outfall 004	Pesticides	Atrazine	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Atrazine Desisopropyl	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Malathion	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Metribuzin	0.022 UY	ug/L	0.022	0.087
7/14/2014 11:35	Outfall 004	Pesticides	Naled	0.044 UYJ	ug/L	0.044	0.17
7/14/2014 11:01	Outfall 004	Pesticides	Azinphos Methyl	0.019 U	ug/L	0.019	0.077
7/14/2014 11:01	Outfall 004	Pesticides	Disulfoton	0.0048 U	ug/L	0.0048	0.019
7/14/2014 11:35	Outfall 004	Pesticides	Chlorpyrifos Methyl	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Diazinon	0.011 UYJ	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Ethion	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Norflurazon	0.033 UYJ	ug/L	0.033	0.13
7/14/2014 11:35	Outfall 004	Pesticides	Parathion Methyl	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Prometon	0.022 UY	ug/L	0.022	0.087
7/14/2014 11:01	Outfall 004	Pesticides	Atrazine	0.013 U	ug/L	0.013	0.052
7/14/2014 11:01	Outfall 004	Pesticides	Diazinon	0.0097 UJ	ug/L	0.0097	0.039
7/14/2014 11:35	Outfall 004	Pesticides	Azinphos Methyl	0.022 UY	ug/L	0.022	0.087
7/14/2014 11:35	Outfall 004	Pesticides	Demeton	0.026 UY	ug/L	0.026	0.1
7/14/2014 11:35	Outfall 004	Pesticides	Disulfoton	0.0054 UY	ug/L	0.0054	0.022
7/14/2014 11:35	Outfall 004	Pesticides	Fenamiphos	0.033 UY	ug/L	0.033	0.13
7/14/2014 11:35	Outfall 004	Pesticides	Fonofos	0.011 UYJ	ug/L	0.011	0.044
7/14/2014 11:01	Outfall 004	Pesticides	Ethoprop	0.0048 U	ug/L	0.0048	0.019
7/14/2014 11:01	Outfall 004	Pesticides	Atrazine Desisopropyl	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:01	Outfall 004	Pesticides	Butylate	0.019 U	ug/L	0.019	0.077
7/14/2014 11:01	Outfall 004	Pesticides	Ethion	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:01	Outfall 004	Pesticides	Fonofos	0.0097 UJ	ug/L	0.0097	0.039
7/14/2014 11:01	Outfall 004	Pesticides	Mevinphos	0.0097 U	ug/L	0.0097	0.039

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
7/14/2014 11:35	Outfall 004	Pesticides	Alachlor	0.065 UY	ug/L	0.065	0.26
7/14/2014 11:01	Outfall 004	Pesticides	Alachlor	0.058 U	ug/L	0.058	0.23
7/14/2014 11:01	Outfall 004	Pesticides	Atrazine Desethyl	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:01	Outfall 004	Pesticides	Chlorpyrifos Methyl	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:01	Outfall 004	Pesticides	Fenamiphos	0.029 U	ug/L	0.029	0.12
7/14/2014 11:01	Outfall 004	Pesticides	Hexazinone	0.029 UJ	ug/L	0.029	0.12
7/14/2014 11:01	Outfall 004	Pesticides	Metalaxyl	0.039 U	ug/L	0.039	0.15
7/14/2014 11:01	Outfall 004	Pesticides	Norflurazon	0.029 UJ	ug/L	0.029	0.12
7/14/2014 11:01	Outfall 004	Pesticides	Prometryn	0.019 U	ug/L	0.019	0.077
7/14/2014 11:35	Outfall 004	Pesticides	Ametryn	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Bromacil	0.044 UYJ	ug/L	0.044	0.17
7/14/2014 11:35	Outfall 004	Pesticides	Butylate	0.022 UY	ug/L	0.022	0.087
7/14/2014 11:35	Outfall 004	Pesticides	Metalaxyl	0.044 UY	ug/L	0.044	0.17
7/14/2014 11:35	Outfall 004	Pesticides	Parathion Ethyl	0.022 UY	ug/L	0.022	0.087
7/14/2014 11:35	Outfall 004	Pesticides	Prometryn	0.022 UY	ug/L	0.022	0.087
7/14/2014 11:01	Outfall 004	Pesticides	Demeton	0.023 U	ug/L	0.023	0.093
7/14/2014 11:35	Outfall 004	Pesticides	Atrazine Desethyl	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Chlorpyrifos Ethyl	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Mevinphos	0.011 UY	ug/L	0.011	0.044
7/14/2014 11:35	Outfall 004	Pesticides	Phorate	0.0054 UY	ug/L	0.0054	0.022
7/14/2014 11:01	Outfall 004	Pesticides	Ametryn	0.0097 U	ug/L	0.0097	0.039
7/14/2014 11:01	Outfall 004	Pesticides	Bromacil	0.039 UJ	ug/L	0.039	0.15
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2,4-Dichlorophenol	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2,4-Dimethylphenol	9.6 U	ug/L	9.6	38
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2-Chloronaphthalene	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2-Nitrophenol	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Benzo(b)fluoranthene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Benzo(k)fluoranthene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Phenanthrene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2,4-Dichlorophenol	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Benzo(a)pyrene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Diethyl phthalate	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0 UY	ug/L	2	7.9
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 UY	ug/L	2	7.9

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0 UY	ug/L	3	12
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Pentachlorophenol	3.0 UY	ug/L	3	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9 U	ug/L	1.9	7.7
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Di-n-octyl phthalate	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9 U	ug/L	2.9	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9 U	ug/L	2.9	12
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Benzo(a)anthracene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Butyl benzyl phthalate	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Hexachloroethane	3.0 UY	ug/L	3	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.38 U	ug/L	0.38	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Benzidine	96 U	ug/L	96	380
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Benzo(a)anthracene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 U	ug/L	1.9	7.7
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2,4-Dinitrotoluene	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2-Chloronaphthalene	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2-Chlorophenol	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Chrysene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Di-n-octyl phthalate	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Hexachlorobenzene	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0 UY	ug/L	3	12
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Isophorone	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Phenol	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	1,4-Dioxane	0.020 UY	ug/L	0.02	0.1
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2,6-Dinitrotoluene	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38 U	ug/L	38	150
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	4-Nitrophenol	14 UJ	ug/L	14	58
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Acenaphthene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Dimethyl phthalate	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Fluoranthene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Isophorone	0.96 U	ug/L	0.96	3.8
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2,4-Dimethylphenol	9.9 UY	ug/L	9.9	40
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 UY	ug/L	3	12

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Acenaphthene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Phenanthrene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2-Chlorophenol	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Chrysene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Hexachlorobenzene	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Hexachlorobutadiene	2.9 U	ug/L	2.9	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Pyrene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2,4-Dinitrophenol	15 UYJ	ug/L	15	59
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40 UY	ug/L	40	160
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	4-Nitrophenol	15 UY	ug/L	15	59
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0 UY	ug/L	3	12
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Di-n-butyl phthalate	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Fluoranthene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Hexachlorobutadiene	3.0 UY	ug/L	3	12
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Nitrobenzene	2.0 UY	ug/L	2	7.9
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	1,4-Dioxane	0.12	ug/L	0.02	0.1
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2,4-Dinitrotoluene	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Acenaphthylene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Fluorene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.7
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2-Nitrophenol	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Acenaphthylene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2,4-Dinitrophenol	14 UJ	ug/L	14	58
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	ug/L	2.9	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Anthracene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Diethyl phthalate	0.96 UJ	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9 U	ug/L	1.9	7.7

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Pentachlorophenol	2.9 U	ug/L	2.9	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Phenol	0.96 U	ug/L	0.96	3.8
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2,6-Dinitrotoluene	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0 UY	ug/L	2	7.9
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Benzidine	99 UY	ug/L	99	400
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 UY	ug/L	2	7.9
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Naphthalene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Benzo(a)pyrene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9 U	ug/L	2.9	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Butyl benzyl phthalate	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Di-n-butyl phthalate	0.96 U	ug/L	0.96	3.8
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Hexachloroethane	2.9 U	ug/L	2.9	12
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Naphthalene	0.19 U	ug/L	0.19	0.77
7/14/2014 11:01	Outfall 004	Priority Organic Pollutants	Nitrobenzene	1.9 U	ug/L	1.9	7.7
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.40 UY	ug/L	0.4	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Anthracene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Dimethyl phthalate	0.99 UY	ug/L	0.99	4
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Fluorene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:35	Outfall 004	Priority Organic Pollutants	Pyrene	0.20 UY	ug/L	0.2	0.79
7/14/2014 11:00	Outfall 004	Nutrients	Specific Conductance	1847	umhos/cm		
7/14/2014 11:01	Outfall 004	Nutrients	Specific Conductance	1847	umhos/cm		
7/14/2014 11:01	Outfall 004	Nutrients	Temperature	26.37	C		
7/14/2014 11:35	Outfall 004	Nutrients	pH	7			
7/14/2014 11:00	Outfall 004	Nutrients	Dissolved Oxygen	1.89	mg/L		
7/14/2014 11:35	Outfall 004	Nutrients	Temperature	26.37	C		
7/14/2014 11:01	Outfall 004	Nutrients	pH	7			
7/14/2014 11:00	Outfall 004	Nutrients	Temperature	26.37	C		
7/14/2014 11:35	Outfall 004	Nutrients	Dissolved Oxygen	1.89	mg/L		
7/14/2014 11:01	Outfall 004	Nutrients	Dissolved Oxygen	1.89	mg/L		
7/14/2014 11:00	Outfall 004	Nutrients	pH	7			
7/14/2014 11:35	Outfall 004	Nutrients	Specific Conductance	1847	umhos/cm		

EPA End Sheet

The Bioassay of U. S. Agri-Chemicals Corporation-Fort Meade Chemical Complex effluent sampled on July 14, 16 and 18, 2014. NPDES #FL0001902.

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	3	FL0001902	12	140714	18 **B**	19 **S**	20 2

Remarks

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The Priority Pollutants Analysis of U. S. Agri-Chemicals Corporation-Fort Meade Chemical Complex effluent sampled on July 14, 2014. NPDES #FL0001902.

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	3	FL0001902	12	140714	18 **X**	19 **S**	20 2

Remarks

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Biological Analyses of U. S. Agri-Chemicals Corporation-Fort Meade Chemical Complex effluent sampled on July 14, 2014. NPDES #FL0001902.

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	3	FL0001902	12	140714	18 **S**	19 **S**	20 2

Remarks

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