Effluent Quality Assessment of Florida Mine-Trail Ridge Bradford County NPDES # FL0000051 Sampled May 17, 19, & 21, 2021

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
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Summary of Results

Effluent iron complied with the interim permit limit but exceeded the Class III Water Quality Criterion for Fresh Waters (Subsection 62-302.530(38), F.A.C.). The nutrients and algal growth potential (AGP) results do not indicate a potential for nutrient enrichment of the receiving waters due to effluent discharge. Low levels of atrazine, an herbicide, were detected in the effluent grab sample.

Facility Overview

The Florida Mine – Trail Ridge Facility is an industrial wastewater treatment facility. A Facility Summary, including a description of the facility, summary of permit limits, and any relevant Administrative Order (AO), Consent Order (CO), and Discharge Monitoring Report (DMR) information is provided in Appendix A. The facility is under the AO 185 NE to deal with Total Recoverable Iron that went into effect on 10/29/2018. The facility is also under a CO 18-1240 for lack of inspection records on dams, pits, ditches, ponds, berms, outdated best management practice (BMP) and industrial wastewater discharging off property. The effluent discharges continuously from two outfalls: D-001 and D-002. D-001 discharges into Alligator Creek, a Class III Fresh Water [waterbody identification (WBID) 3606]. A constructed pipeline routes 400 gallons per minute of the treated wastewater from D-001into an existing ditch which then discharges into the Southwest Quadrant Pond, D-002, with eventual discharge into Blue Pond (Class III Fresh Water, WBID 2501), which is the portion of Alligator Creek that flows south in Clay County (Figure 1).

The two receiving waterbodies fall within different Nutrient Watershed Regions for Numeric Nutrient Criteria (NNC). Alligator Creek falls within the North Central region, where NNC, expressed as annual geometric means, are 0.30 mg/L total phosphorus and 1.87 mg/L total nitrogen. Blue Pond falls within the Peninsular Nutrient Watershed Region for NNC. For this region, the NNC, expressed as annual geometric means, are 0.12 mg/L total phosphorus and 1.54 mg/L total nitrogen (Paragraph 62-302.531(2)(c), F.A.C.). Alligator Creek and Blue Pond fall within the Big Bend and Peninsula bioregions, respectively. The daily average dissolved oxygen (DO) saturation for Alligator Creek and Blue Pond shall not be below 34 and 38 percent in more than 10 percent of the values, respectively (Paragraph 62-302.533(1)(a), F.A.C.). This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent samples were taken as grab and as 24-hour time proportional composite samples from monitoring site location EFF-1, for outfalls D-001 and D-002. Grab samples were collected on May 17 and composite samples on May 19, 2021. Effluent renewal grab samples were collected on May 19 and May 21, 2021. For this report, because the effluent discharges into two different

waterbodies with two different WBIDs, the more stringent water quality criteria were used for comparison for dissolved oxygen on Table 1 and total nitrogen and phosphorus on Table 2.

Samples were collected by Paul Duff, Shannon Taylor, and Ashlen Ward (DEP Northeast District Office). Analyses were performed by ALS Environmental Laboratories in Jacksonville, Eurofins Test America Laboratories in Tampa, Eurofins Test America Laboratories in Earth City, and DEP Laboratory in Tallahassee.

All field and laboratory methods followed DEP Standard Operating Procedures (see https://floridadep.gov/dear/quality-assurance/content/dep-sops and https://floridadep.gov/dear/florida-dep-laboratory/content/dep-laboratory-quality-assurance-manual-and-sops for details) and met DEP quality assurance/quality control standards (see https://floridadep.gov/dear/quality-assurance). Explanations of specific methods and measurements can be found in Appendix B.

Class III Water Quality Criteria for Fresh and Marine Waters are found in Rule 62-302, F.A.C. All references to Rule 62-302.530, F.A.C. are to the surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

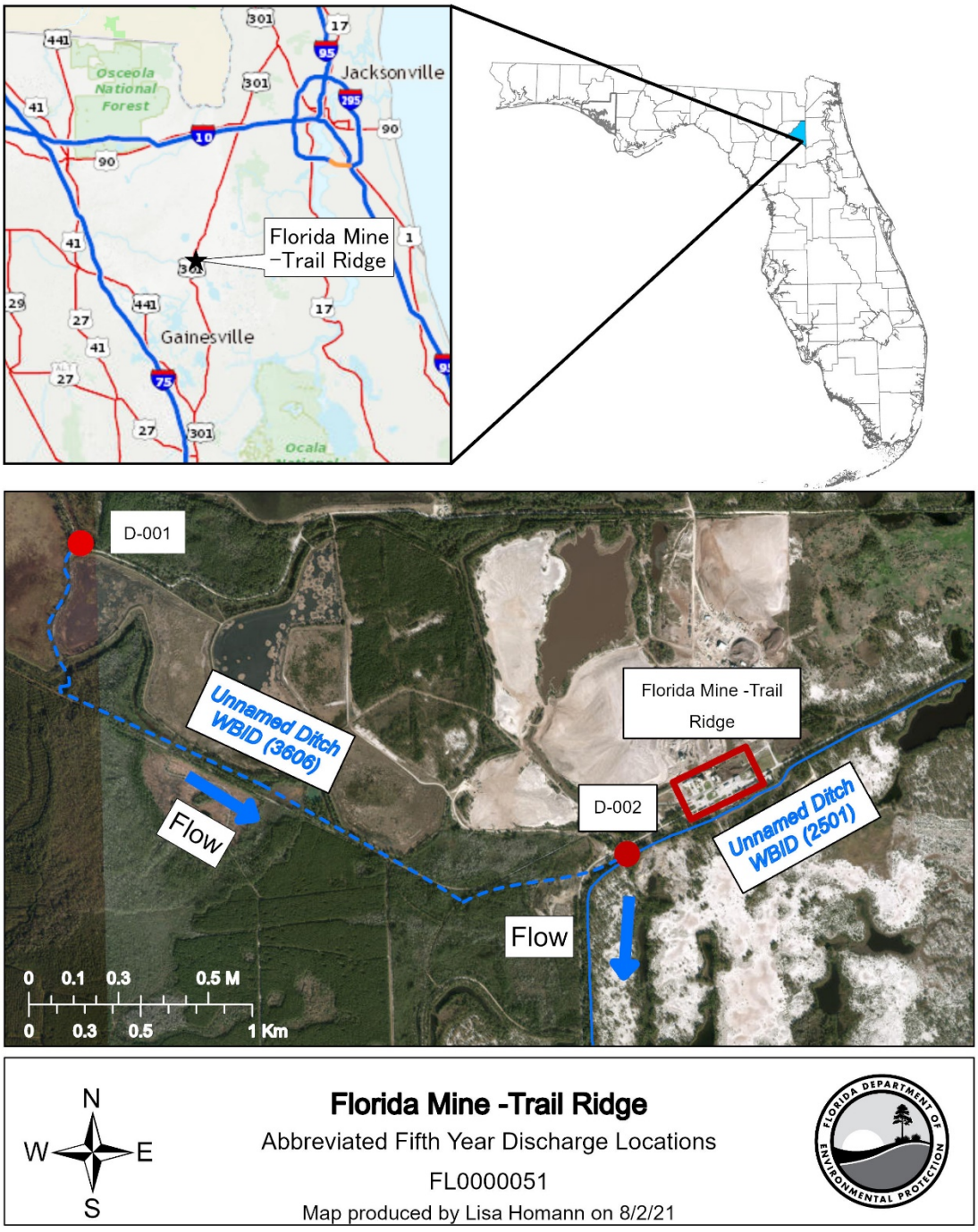


Figure 1. Map of Facility and Discharge Locations

Results

Physical and Chemical Parameters (See Table 1 and Appendices C & D)

- All measured effluent water quality parameters complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

Analytical Water Chemistry (See Table 2 and Appendix D)

- All water chemistry analytes detected in the effluent grab and composite samples complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

Microbiology (See Table 2 and Appendix B)

- Effluent *Escherichia coli* (*E. coli*) levels complied with Class III Water Quality Criteria for Fresh Waters. There is no Class III Water Quality Criteria for Fresh Waters or effluent permit limits for fecal coliform.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed May 18 through May 25, 2021.

- The sample was aerated for 5 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 9.2 mg/L to 8.3 mg/L.

- Chronic bioassay results are reported as the 25% Inhibition Concentration (IC25). 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 62-302.200(5), 62-302.530(20) and/or facility permit limits.

- During the chronic definitive bioassay, the effluent composite sample IC25 for the water flea, *Ceriodaphnia dubia (C. dubia)*, and the IC25 for the fish, *Pimephales promelas*, were calculated as being greater than 100% effluent, and therefore complied with effluent permit limits. However, the no observed effect concentration (NOEC) for *C. dubia* was 50% which may suggest low levels of toxicity in the effluent. There was an effect on the reproduction of the *C. dubia* organisms, but it did not exceed the IC25 threshold.

- For more information or to obtain copies of the toxicity bench sheets, please contact the Biology Laboratory at 850-245-8177.

Metals (See Table 3 and Appendix D)

- Effluent iron exceeded the Class III Water Quality Criterion for Fresh Waters (Subsection 62-302.530(38), F.A.C.). Effluent iron was in compliance with interim permit limit of 2 mg/L. AO 185 gives the facility until 6/28/2021 to meet the final permit limit of 1 mg/L.

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata* was used to determine the AGP values in the effluent grab.

- The effluent grab sample AGP result of 0.300 U mg dry wt/L is below the AGP range (6.10 to 20.0 mg dry wt/L) suggested to be representative of moderate productivity for freshwater (Miller et al. 1978).

- Orthophosphate and nitrate-nitrite nutrients were not detected in the effluent sample. Using ½ the method detection limit (MDL) for orthophosphate and nitrate-nitrite in the calculation for total nitrogen to phosphorus ratio, value suggests that the effluent is probably ortho-phosphate limited (Miller et al. 1978).

Organic Constituents (See Appendix D)

- Atrazine was detected in the effluent grab sample between the MDL and PQL at 0.49 I ng/L.

- There are no effluent permit limits for organic constituents.

Literature Cited

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

Stevenson, R. J. and Bahls, L. L. 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. 2000. Nutrient Criteria Technical Guidance Manual – River and Streams. EPA-822-B-00-002.

Table 1. Measured field parameters

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Temperature	C	-	-	27.2
pH	SU	6.0 - 8.5	6.0 - 8.5 s	8.0
Specific Conductance	µmhos/cm	≤ 1,275	-	176.4
Salinity	ppt	-	-	0.2 c
Dissolved Oxygen	% saturation	≥ 38	-	71.8
Dissolved Oxygen	mg/L	-	-	6.2

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

Table 2. Analytical water chemistry, microbiological, and toxicological data

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical water chemistry, microbiological, and toxicological data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab	Effluent Composite
Ortho-phosphate	mg P/L	-	-	0.004 U	-
Total Phosphorus	mg P/L	≤ 0.12 g	-	0.003 I	-
Total Ammonia	mg N/L	1.24	-	0.010	-
Nitrate and Nitrite	mg N/L	-	-	0.004 U	-
Total Kjeldahl Nitrogen	mg N/L	-	-	0.22	-
Organic Nitrogen	mg N/L	-	-	0.21 c	-
Total Nitrogen	mg N/L	≤ 1.54 g	-	0.22 c	-
Total Organic Carbon	mg C/L	-	-	5.4	-
Chlorophyll *a* - Corrected	µg/L	-	-	1.3 U	-
Phaeophytin	µg/L	-	-	1.4 U	-
CBOD, 5 day, N - inhibited	mg/L	-	-	-	2.0 U
Total Suspended Solids	mg/L	-	≤ 30 p	-	4 I
Turbidity	NTU	≤ 29 t	-	2.3 A	-
Color (true)	PCU	-	-	15 A	-
Alkalinity	mg CaCO3/L	≥ 20	-	25 A	-
Chloride	mg Cl/L		-	12 A	-
Fluoride	mg F/L	≤ 10.0	-	0.035 U	-
Sulfate	mg SO4/L	-	-	35 A	-
Radium 226	pCi/L	-	-	-	0.793
Radium 226-Counting Error	pCi/L	-	-	-	0.350
Radium 228	pCi/L	-	-	-	1.66 J
Radium 228-Counting Error	pCi/L	-	-	-	0.427
Radium 226 + 228	pCi/L	≤ 5	≤ 5 p	-	2.45 c
Fecal Coliforms	cfu/100 mL	-	-	2.0 B	-
Escherichia coli	MPN/100 mL	≤ 410 s	-	6.2	-
Bioassay - Water flea *(Ceriodaphnia dubia)*	% effluent	-	≥ 100 s	> 100	-
Bioassay - Fish *(Pimephales promelas)*	% effluent	-	≥ 100 s	> 100	-

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

g- Value expressed as annual geometric mean.
p – 24-hour time proportioned composite
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptance range
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
U - Material analyzed for but not detected; value reported is the method detection limit

Table 3. Analytical metals data

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical metals data

Analyte	Units	Effluent Grab Class III Criteria	Effluent Permit Limits	Effluent Grab	Effluent Composite Class III Criteria	Effluent Composite
Hardness	mg CaCO3/L	-	Report	66.8 c	-	69.8 c
Aluminum	µg/L	-	-	830	-	797
Arsenic	µg/L	≤ 50	-	0.20 I	-	0.16 I
Cadmium	µg/L	≤ 0.201 b	-	0.020 U	≤ 0.207 b	0.020 U
Calcium	mg/L	-	-	24.4	-	25.4
Chromium, Total	µg/L	≤ 61.9 [1] b	-	0.40 U	≤ 64.2 [2] b	0.40 U
Copper	µg/L	≤ 6.61 b	-	0.40 U	≤ 6.86 b	0.85
Iron	µg/L	≤ 1,000	≤ 2,000 [2] p	1,280	-	1,250
Lead	µg/L	≤ 1.9 b	-	0.20 U	≤ 2.01 b	0.20 U
Magnesium	mg/L	-	-	1.43	-	1.54
Mercury	ng/L	≤ 0.012	Report	1.3	-	-
Nickel	µg/L	≤ 37.1 b	≤ 37.1 b s	0.50 U	≤ 38.5 b	0.50 U
Potassium	mg/L	-	-	0.68 I	-	0.70 I
Selenium	µg/L	≤ 5.0	-	0.20 U	-	0.20 U
Silver	µg/L	≤ 0.07	-	0.010 U	-	0.010 U
Sodium	mg/L	-	-	7.2	-	7.3
Zinc	µg/L	≤ 85.1 b	≤ 85.1 b s	5.0 U	≤ 88.3 b	5.0 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
b - Value is calculated based on hardness, (62-302.530(3))
c - Value is calculated
p – 24-hour timed proportioned composite
s - Single sample
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit
1 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III
2 – Permit limit value refers to the interim limit. Final permit value is 1,000 µg/L.

Table 4. Algal Growth Potential (AGP)

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

Location	Test Species	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Grab	*Pseudokirchneriella subcapitata*	0.300 U	0.5 ± 0.1 [3]	0.9 ± 0.2 [3]	8 ± 2 [3]	1 ± 0.3	6 [3]	70 [3]

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

3 – nitrate-nitrite and ortho-phosphate were not detected in the effluent grab sample. Predicted AGP values and N:P ratios were calculated using ½ the method detection limit (MDL) for non-detect values.

Appendix A. Facility Summary

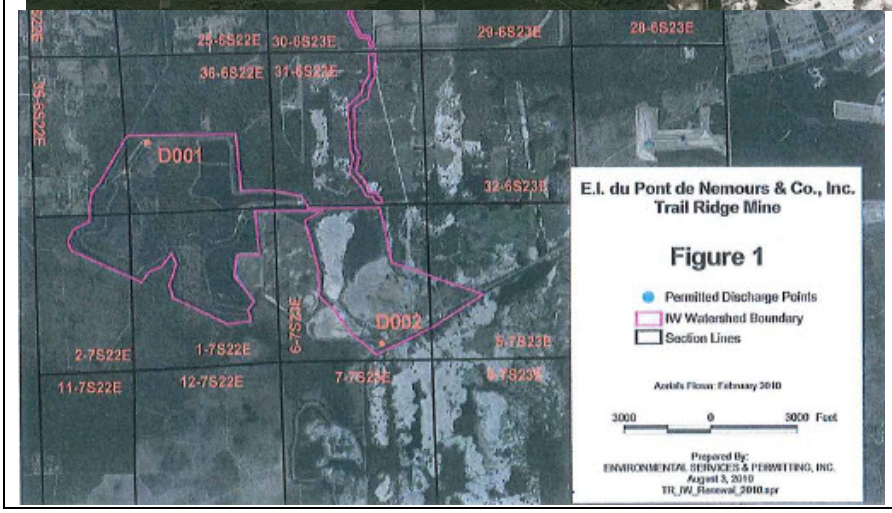
PART I: Information gathered prior to sampling event	
Prepared By: Abhi Maturi	**Contact Number:** 904-256-1584
Facility Name (as it appears on permit): Florida Mine- Trail Ridge	**Former Names:** DuPont-Trail Ridge
NPDES Permit Number: FL0000051	**Permit Expiration Date:** 06/28/2022
Physical Address: 5222 Treat Road, Starke, Florida 32091	
District: Northeast	**County:** Bradford
Function of Facility: Industrial Waste Water Treatment	
Facility Type: Industrial Wastewater	**Permitted Capacity (MGD):** 40
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): May 2020-May 2021. 9.841 MGD. Average is for outfalls D-001 and D-002 combined.	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): Not Applicable	
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): **Surface Water Discharge** EFF-1: Nearest accessible point after final treatment but before actual discharge EFF-2: Discharge from final treatment pond to unnamed ditch to Blue Pond.	
Description of Permitted Outfall(s): **D-001**: Discharge into Alligator Creek (Class III fresh waters, WBID 3606). Location is approximately at latitude 29° 55' 25" N, longitude 82° 03' 43" W. **D-002**: Discharge into to the Southwest Quadrant Pond then to Blue Pond (Class III fresh waters, WBID 2501) Location is approximately at latitude 29° 54' 38" N, longitude 82° 02' 12" W	
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): This heavy mineral mining wastewater treatment system provides acidification with ferric chloride, sulfuric acid, aluminum sulfate, or ferric sulfate to a pH between 3.0 and 3.5 standard units for flocculation of colloidal material followed by settling in a series of diked ponds, neutralization with hydrated lime to a pH between 6.0 to 8.5, and additional settling with final discharge to Alligator Creek. Upon Department approval, polymer addition may be provided after neutralization for aluminum reduction prior to final discharge to Alligator Creek, at D-001, which flows west in Bradford County. Storm water and rainfall from the mined areas are also collected and treated as described above. The treatment train consists of the addition of barium chloride to the	

wastewater at the location where ferric chloride, aluminum sulfate and or ferric sulfate is added (prior to the humate settling ponds). A portion of the effluent is directed to the Southwest Quadrant Pond. The existing recycle line from D-001 was tapped and a pipeline was constructed to route approximately 400 gallons per minute (gpm) of the treated wastewater to an existing ditch which then discharges into the Southwest Quadrant Pond (location D-002) with eventual discharge into Blue Pond, which is the portion of Alligator Creek that flows south in Clay County. This rerouting of final effluent is the result of an effort by *The Keystone Stakeholders* to help improve lake water levels in the Keystone Heights area.

First Permit Revision (PA: FL0000051-013-IWF-MT)
Permit Revision 013 was for the requirement of electronic DMR submittal.

Second Permit Revision (PA: FL0000051-014-IWF-MT)
The revision serves to transfer the permit from The Chemours Company TT LLC to The Chemours Company FC LLC. In accordance with Rule 62-620.340(5), Florida Administrative Code, The Chemours Company FC LLC, is the new responsible authority for this industrial wastewater treatment facility (WWTF) permit. All other conditions of the permit remain in effect and are fully enforceable. Enclosed is the revised permit and DMR reflecting the new ownership.





	PART I: Continued										
	List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)										
D-001				Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Daily Maximum	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	MGD	Max	Report	Report		40		Continuous	Recording Flowmeter with Totalizer	EFF-1	
Solids, Total Suspended	Mg/L	Max		20		30		Weekly	24-hr FPC	EFF-1	
Iron, Total Recoverable	Mg/L	Max				1		Weekly	24-hr FPC	EFF-1	
Radium 226 + Radium 228, Total	Mg/L	Max				5		Annually	24-hr FPC	EFF-1	
pH	s.u.	Min Max				6.0 8.5		Continuous	Meter	EFF-1	See I. A. 3
Zinc, Total Recoverable	Mg/L	Max				See I.A.4		Annually	Grab	EFF-1	
Nickel, Total Recoverable	Mg/l	Max				See I.A.4		Annually	Grab	EFF-1	
Hardness	Mg/l	Max				Report		Annually	Grab	EFF-1	

Chronic Whole Effluent Toxicity, 7-day IC25	Percent	Min					100	Semi-annual	Grab	EFF-1	See I.A.6
Acute Whole Effluent Toxicity, 96-hour LC50	Percent	Min					100	See I.A.6	Grab	EFF-1	See I.A.6 and I.A.7
Mercury, Total Recoverable	ug/L	Max					Report	Annually	Grab	EFF-1	See I.A.11

I.A.3. The pH at EFF-1 shall be monitored continuously via a recorder. The pH values shall not deviate outside the range of 6.0 standard units to 8.5 standard units more than 1% of the time in any calendar month and no individual excursion shall exceed 60 minutes. An "excursion" is an unintentional and temporary incident in which the pH value of discharged wastewater exceeds the range set forth in the permit.

I.A.6. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001. When five (5) consecutive discharge days have not occurred from outfall D-001, the permittee shall conduct acute toxicity testing in accordance with Part I.A.7 of this permit in lieu of the chronic testing where sampling for chronic toxicity testing cannot be conducted as described below.

a. Effluent Limitation

(1) In any routine or additional follow-up test for **chronic** whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. [Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.]

(2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. [Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]

b. Monitoring Frequency

(1) Routine toxicity tests shall be conducted once every **six months**, the first starting within six months of the most recent tests and lasting for the duration of this permit.

(2) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in 6.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four consecutive valid routine tests that demonstrate compliance with the effluent limitation in 6.a.(1) above.

(3) If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821-R-02-013, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, then the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.

c. Sampling Requirements

(1) For each routine test or additional follow-up test conducted, a total of three grab samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.

(2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.

(3) Samples for routine and additional follow-up tests shall not be collected on the same day.

d. Test Requirements

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.

(2) The permittee shall conduct 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 Edition, EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.

(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-013, Section 7.2.3.

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, then the organism supplier SRT data and the test laboratory monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

(2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or the test acceptability criteria are not met, then the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (*Ceriodaphnia dubia*) and Section 11.11 (*Pimephales promelas*). The repeat test shall begin within 21 days after the last day of the invalid test or next discharge.

(3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, then the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

f. Reporting Requirements

(1) Results from all required tests shall be entered on the Discharge Monitoring Report (DMR) as the calculated IC_{25} for each test species.

(2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and **e-mailed** or mailed to the Department at the address below **within 30 days** after the last day of the test.

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed or **e-mailed within 30 days** after the last day of the second valid additional follow-up test.

(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(5) The same bioassay data shall not be reported as the results of more than one test.

(6) All bioassay laboratory reports shall be **e-mailed** or mailed to *Jacksonville* **only**:

Florida Department of Environmental Protection

Northeast District – Industrial Wastewater Section
8800 Baymeadows Way West, Suite 100
Jacksonville, FL 32256

g. Test Failures

(1) A test fails when the test results do not meet the limits in 6.a.(1).

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the chronic toxicity limitation in 6.a.(1) above, then the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test (or at the next time of discharge) and conduct two additional follow-up tests on each species that failed the test in accordance with **Error! Reference source not found.**.d.

(b) The first test shall be initiated within 28 days after the last day of the failed routine test (or at the next time of discharge). The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(c) The additional follow-up tests shall be conducted using a control and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the additional follow-up tests to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.

(3) In the event of three valid test failures (whether acute or chronic toxicity tests and whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.

(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.

(b) The Department shall review and approve the plan before initiation.

(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.

(d) Progress reports shall be submitted quarterly to the Department at the address above.

(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with **Error! Reference source not found.**.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 6.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, then a repeat test shall be initiated within 21 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 6.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests.

(g) If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, then the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

(4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 6.(a)(2), then the Department may revise this permit to require acute definitive whole effluent

toxicity testing.

The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

I.A.7. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001. The permittee shall report MNR on the DMR for reporting purposes when acute whole effluent toxicity monitoring is not required.

a. Effluent Limitation
   (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent. [Rules 62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(a), and 62-4.241, F.A.C.]

b. Monitoring Frequency
   (1) Routine acute toxicity tests shall be conducted during the required semiannual reporting period in lieu of the chronic toxicity testing as described in Part IA.6.

c. Sampling Requirements
   (1) All tests shall be conducted on a single grab sample of final effluent.

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

e. Quality Assurance Requirements
   (1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly acute toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, then the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
   (2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, then the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 10% at that time, then the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and included with the bioassay laboratory reports.

f. Reporting Requirements

(1) Results from all required toxicity tests shall be reported on the Discharge Monitoring Report (DMR) as the calculated LC50 value for each test species.

(2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and mailed or emailed to the Department at the address below within 30 days after the last day of the test.

(3) For any two additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, and mailed or emailed within 30 days after the last day of the second valid additional follow-up test.

(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(5) The same bioassay data shall not be reported as the results of more than one test.

(6) All bioassay laboratory reports shall be mailed or emailed to *Jacksonville* only:

FDEP Northeast District - Industrial Wastewater Section
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

g. Test Failures

(1) A test fails when the test results do not meet the limits in 7.a.(1).

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the acute toxicity limitation in 7.a.(1) above, then the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 7.d

(b) The first test shall be initiated within 28 days after the last day of the failed routine test or next discharge. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(c) The additional follow-up tests shall be conducted using a control and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent. The permittee may modify the dilution series in the additional follow-up tests to more accurately bracket the toxicity such that at

least two dilutions above and two dilutions below the target concentration and a control are run. All test results shall be statistically analyzed according to the procedures in EPA-821-R-02-012.

(3) In the event of three valid test failures (whether acute or chronic toxicity tests and whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.

(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.

(b) The Department shall review and approve the plan before initiation.

(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.

(d) Progress reports shall be submitted quarterly to the Department at the address above.

(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 7.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 7.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, then a repeat test shall be initiated within 14 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 7.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests.

(g) If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 14 days after the last day of the invalid test, then the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

The additional follow-up testing and The Plan do not preclude the Department taking enforcement action for whole effluent toxicity failures.

I.A.11. EPA Method 1631E shall be used to analyze for total recoverable mercury or other clean techniques approved for analysis such as Method 245.1 or Method 245.7 where the method detection limit is equal to or less than 25 ng/L. If the values detected are below the water quality standard, mercury is in compliance and does not trigger the need for a minimization plan. However, if testing results are above the water quality standard in the effluent, the permittee shall contact and discuss with the DEP NED wastewater section within 30 days of receipt of the results prior to submitting, preparing and implementing a mercury minimization plan addressing sources of mercury.

PART I: Continued

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

D-002			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Total	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	MGD	Max		Report			Continuous	Recording Flowmeter with Totalizer	EFF-2	

PART I: Continued

Receiving Waters: **Alligator Creek (WBID 3606)** **Blue Pond (WBID 2501)**	**Classification (indicate whether fresh or marine):** **Class III Fresh Waters**

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.):
The facility tests for chronic toxicity on a daphnid, ***Ceriodaphnia dubia***, Survival and Reproduction Test and a fathead minnow, ***Pimephales promelas***, Larval Survival and Growth Test.

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.):
Facility is under Administrative Order AO 185 NE which went into effect October 29, 2018. The AO sets an interim limit for Total Recoverable Iron of 2 mg/L to be taken quarterly in a flow proportional composite single sample. Sample will be taken from monitoring site EFF-001

Facility under CO 18-1240 for lack of inspection records on dams, pits, ditches, ponds, berms, outdated BMP, industrial wastewater discharging off property.

Facility Mixing Zone Details (if applicable):
The facility has not been granted a mixing zone

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

Date	Parameter and Units	Limit	Result
07/31/2020	Total Recoverable Iron, mg/L	2.0 (Max)	2.1
02/28/2021	Total Suspended Solids, mg/L	30 (Max)	33
02/28/2021	IC25 Static renewal 7Day Chr Pimephales, Percent	100 (Min)	46.1
09/30/2019	IC25 Static renewal 7day Chr Ceriodaphnia	100 (Min)	724.5

Describe previous FYI and WQBEL study: An FYI was conducted in 2014. The facility was found to be in compliance.

Describe previous or current Enforcement Actions (including WLs):
Facility is under AO 185 NE to deal with Total Recoverable Iron. The AO went into effect on 10/29/2018

From 10/2017-03/2018 DEP and EPA conducted a series of inspections at Chemours. On 3/23/2018 the facility received a warning letter WL18-40 for violations observed during a CEI inspection.

On 11/13/2020 the facility received a CAO for a CEI inspection conducted on 09/25/2020

Describe any violations or problems noted in previous inspection:
On 09/25/2020 a CEI inspection was conducted. Violations from that inspection include:

1. Chain of Custody and Lab Reports were missing information
2. Exceedances for Total Recoverable Iron, Toxicity, and pH

Discuss whether DMR trends within previous five years are improving or declining: All parameters for the facility have remained within the expected limits and has not shown any significant trends
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

PART II: Sampling Event Information

Date(s) sample collected: 5/17/21 / 5/19/21 / 5/21/21	**Sampler(s):** Paul Duff, Shannon Taylor, Ashten War
Temperature (Deg C): 27.2 / 24.89 / 25.1	**pH (SU):** 7.99 / 7.82 / 7.68
Dissolved Oxygen (mg/L): 6.22 / 76.8% / 80.5%	**Conductivity (umhos/cm):** 176.4 / 179.0 / 181.8
Total Residual Chlorine (mg/L): not obtained	**Total Residual Chlorine - after Disinfection (mg/L):** Not applicable
Method of Chlorination: Not used	**Method of De-chlorination:** Not applicable

Flow During Sample Collection for each outfall(MGD):

1.16 mgd / 0.81 mgd / 0.09 mgd

Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day):

Describe Discharge during Sampling Event:

☒ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent**

☐ **Other, please specify:**

Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here:

Appendix B. Explanations of Measurements

Biological assessments are prepared by DEP staff to provide information for review of NPDES permit renewal applications. Biological assessments, in conjunction with other information concerning the subject facility and its receiving-water body, are used to determine appropriate permit conditions. References to Rule 62-302.530, F.A.C., are to the currently applicable surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

- **Chemical Analyses of the Effluent**

  The effluent was analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides following DEP SOPs. The results from these analyses were compared with Water Quality Criteria (62-302, F.A.C.) and facility permit limits.

- **Toxicity Bioassays**

  Greater than 50% mortality in an acute toxicity test may constitute an exceedance of Paragraph 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 Subsection 62-302.530(20), Subsection 62-302.530(62) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of Subsection 62-302.530(62) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

- **Bacteriological Testing**

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

- **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. AGP results within the range 6.10 to 20.0 mg dry wt/L are suggested to be representative of high productivity for freshwaters (Miller et al. 1978). High AGP values may constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a), F.A.C. and/or Paragraph 62-302.530(48)(b), F.A.C.

  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP 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 ± 20%. When the ratio of nitrogen to phosphorus (N: P) is less than 10:1, nitrogen limitation of algal production is likely. When the N: P ratio is 20:1 or greater,

phosphorus limitation is likely (USEPA 2000). For ratios in-between, co-limitation may occur. Production of lower biomass than expected may be evidence of growth inhibition related to toxic compounds present in the water sample tested and may constitute an exceedance of Subsection 62-302.530(62), F.A.C.

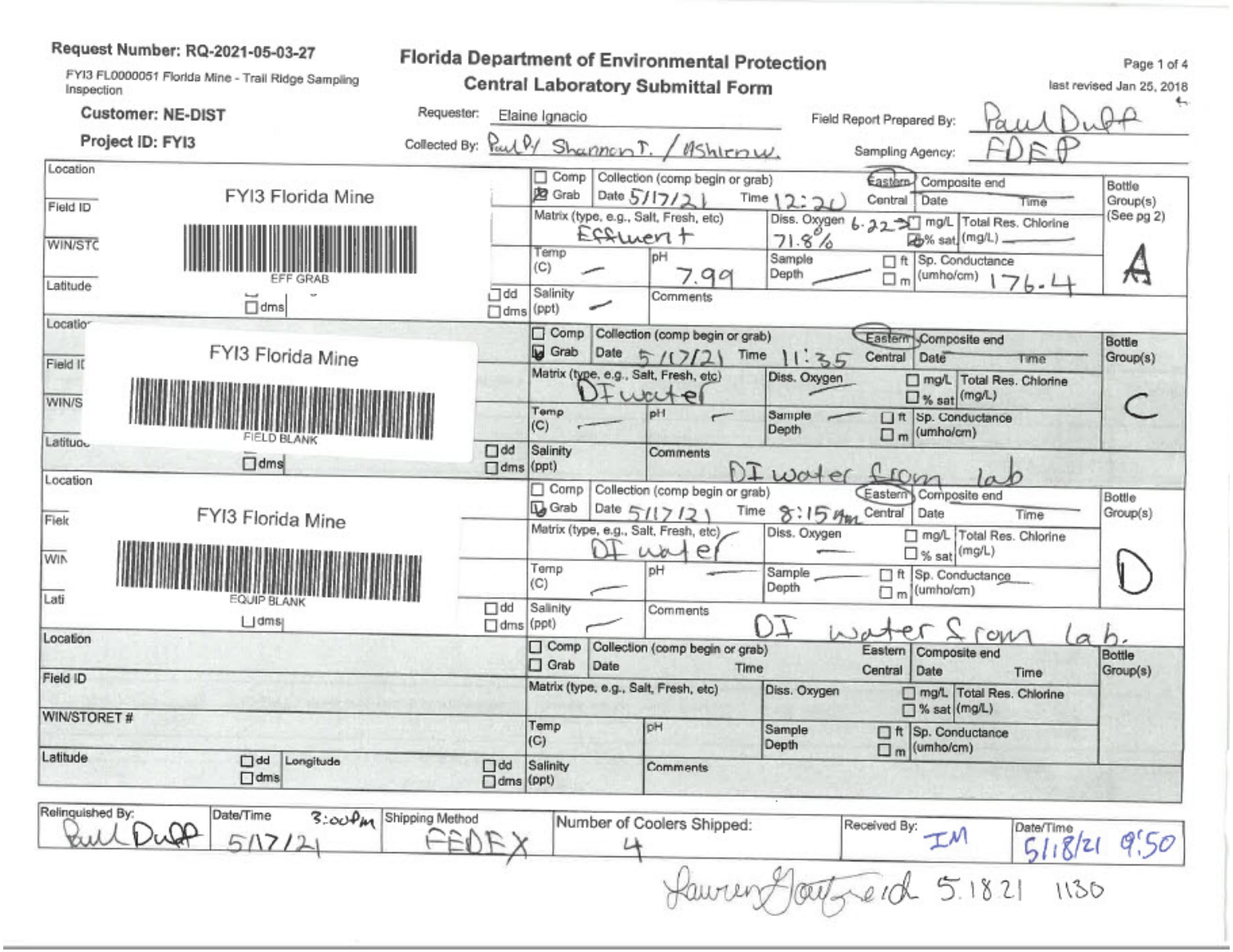
- **Chlorophyll *a* Content**

  Chlorophyll *a* content is an estimate of algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may be constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a) F.A.C. and/or Paragraph 62-302.530(48)(b) F.A.C.

- **Definition of Qualifiers** (Rule 62-160.700, F.A.C.)

  A - Value reported is the mean of two or more determinations
  B - Results based on colony counts outside the acceptable range.
  I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
  J - Estimated value
  K - Actual value is known to be less than value given
  L - Actual value is known to be greater than value given
  N - Presumptive evidence of presence of material.
  O - Sampled, but analysis lost or not performed.
  Q - Sample held beyond normal holding time.
  T - Value reported is less than the criterion of detection.
  U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
  V - Analyte was detected in both sample and method blank.
  X - Too few individuals to calculate SCI value.
  Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
  Z - Colonies were too numerous to count (TNTC)

Appendix C. Chain of Custody



Request Number: RQ-2021-05-03-27

FYI3 FL0000051 Florida Mine - Trail Ridge Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 4
last revised Jan 25, 2018

Requester: Elaine Ignacio
Field Report Prepared By: Paul Dupp
Collected By: Paul P./ Shannon T. / MShirrow.
Sampling Agency: FDEP

FYI3 Florida Mine — EFF GRAB
Location
Field ID
WIN/STC
Latitude ☐dd ☐dms
☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5/17/21 Time 12:20 | Eastern / Central | Composite end Date Time | Bottle Group(s) (See pg 2): A
Matrix (type, e.g., Salt, Fresh, etc): Effluent | Diss. Oxygen 6.22 mg/L, 71.8 % sat | Total Res. Chlorine (mg/L)
Temp (C) | pH 7.99 | Sample Depth ☐ft ☐m | Sp. Conductance (umho/cm) 176.4
Salinity (ppt) | Comments

FYI3 Florida Mine — FIELD BLANK
Location
Field ID
WIN/S
Latitude ☐dd ☐dms
☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5/17/21 Time 11:35 | Eastern / Central | Composite end Date Time | Bottle Group(s): C
Matrix (type, e.g., Salt, Fresh, etc): DI water | Diss. Oxygen | Total Res. Chlorine (mg/L)
Temp (C) | pH | Sample Depth ☐ft ☐m | Sp. Conductance (umho/cm)
Salinity (ppt) | Comments: DI water from lab

FYI3 Florida Mine — EQUIP BLANK
Location
Field ID
WIN
Lati
Latitude ☐dd ☐dms
☐ Comp ☒ Grab | Collection (comp begin or grab) Date 5/17/21 Time 8:15 PM | Eastern / Central | Composite end Date Time | Bottle Group(s): D
Matrix (type, e.g., Salt, Fresh, etc): DI water | Diss. Oxygen | Total Res. Chlorine (mg/L)
Temp (C) | pH | Sample Depth ☐ft ☐m | Sp. Conductance (umho/cm)
Salinity (ppt) | Comments: DI water from lab.

Location
Field ID
WIN/STORET #
Latitude ☐dd ☐dms | Longitude ☐dd ☐dms
☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central | Composite end Date Time | Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐mg/L ☐% sat | Total Res. Chlorine (mg/L)
Temp (C) | pH | Sample Depth ☐ft ☐m | Sp. Conductance (umho/cm)
Salinity (ppt) | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Paul Dupp	5/17/21 3:00PM	FEDEX	4	IM	5/18/21 9:50

Lauren Gaufreau 5.18.21 1130

Request Number: RQ-2021-05-03-27

FYI3 FL0C00051 Florida Mine - Trail Ridge Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 4

last revised Jan 25, 2018

Requester: Elaine Ignacio

Field Report Prepared By: Paul Duff

Collected By: Paul Duff / Ashlen Ward

Sampling Agency: FDEP

Location: FTI3 Florida Mine	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 5/18/21 Time 10:00AM	Eastern Central	Composite end Date 5/19/21 Time 10:00AM	Bottle Group(s) (See pg 2) B		
Field ID	Matrix (type, e.g., Salt, Fresh, etc): effluent	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #: EFF COMP	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Paul Duff	5/19/21 / 3:00PM	FEDEX	1		

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6/8/2021 (R

Request Number: RQ-2021-05-03-27

FYI3 FL0000051 Florida Mine - Trail Ridge Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

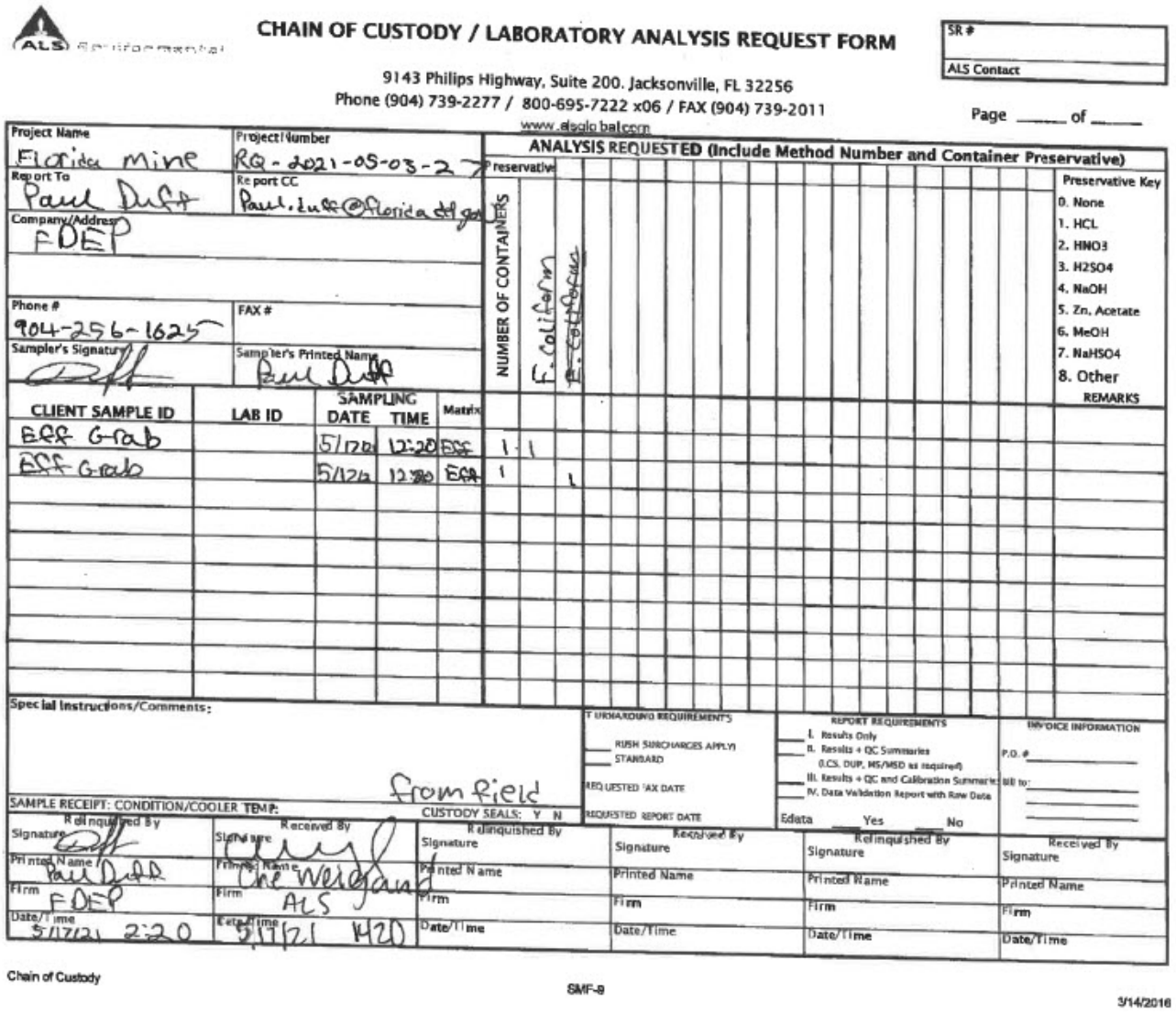
Page 1 of 4
last revised Jan 25, 2018

Requester: Elaine Ignacio
Collected By: Paul Duff / Ashley Ward
Field Report Prepared By: Paul Duff
Sampling Agency: FDEP

Location: FTI3 Florida Mine	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 5/19/21 Time 9:50 AM	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID: EFF GRAB	Matrix (type, e.g., Salt, Fresh, etc): effluent	Diss. Oxygen 76.8 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A
WIN/ST	Temp (C) 24.8	pH 7.82	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm) 179.0	
Latitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location: FTI3 Florida Mine	☑ Comp ☐ Grab	Collection (comp begin or grab) Date 5/18/21 Time 10:00 AM	Eastern Central	Composite end Date 5/19/21 Time 10:00 AM	Bottle Group(s)
Field ID: EFF COMP	Matrix (type, e.g., Salt, Fresh, etc): effluent	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		B
WIN/ST	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Paul Duff	5/19/21 / 3:00pm	FEDEX	2	[illegible]	5-20-21 / 10:10

also



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR #

ALS Contact

9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

Page _____ of _____

Project Name	Project Number
Florida Mine	RQ-2021-05-03-27
Report To: Paul Dutt	Report CC: Paul.Dutt@floridadep.gov
Company/Address: FDEP	
Phone #: 904-256-1625	FAX #
Sampler's Signature:	Sampler's Printed Name: Paul Dutt

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative: F. Coliform	Preservative: E. Coliform
EFF Grab		5/17/21	12:20	EFF	1	1	
EFF Grab		5/17/21	12:30	EFF	1		1

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key
0. None
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4
8. Other

REMARKS

Special Instructions/Comments: from field

SAMPLE RECEIPT: CONDITION/COOLER TEMP: CUSTODY SEALS: Y N

TURNAROUND REQUIREMENTS
___ RUSH SURCHARGES APPLY!
___ STANDARD
REQUESTED TAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # _____
Bill to: _____

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Paul Dutt	Printed Name: Che Weidauer	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: FDEP	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 5/17/21 2:20	Date/Time: 5/17/21 1420	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Chain of Custody

SMF-9

3/14/2016

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: LAB145

Contract Manager: Trenetta Wilson/Magan Bowden (850) 245-8084/ (850) 245-8095
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins/TestAmerica Laboratories, Inc
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: _____ Contractor Approval By: Noel Savoie
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 4/21/2021
Means of Contact: Email

Task Assignment Number: OV221 Maximum Cost: $36.25 Turnaround Time: 5 BD

Sample Delivery Date: 5/18/2021

Project Name/Description:
RQ-2021-05-03-27; FY13 # FL0000051 Florida Mine- Trail Ridge

Deliverable Number/ Parameter Group/ Method	Sample Matrix	# of Samples	# of Containers	DEP ID #	Unit Cost	% Mark-up (if any)	Cost
Quote/OV-CBOD-IN CBOD, nitrogen-inhibited 5210B-2011	W	1	1 bottle		$33.75		$33.75
217/Sample Disposal Fee:		1			$2.50		$2.50
Total Number of Containers Shipped:		1				Total:	$36.25

660-110686 Chain of Custody

Loc: 660
110685

QC Instructions:

Comments: Quote #65015426 - 0

Samples released to Contract Lab by: _____ Date/Time: 5/19/21 / 3:00PM

Delivery Method: FEDEX Shipping

Samples Accepted by: _____ Date/Time 5/20/21 8:50

* **Please sign and return by email to** Trenetta.L.Wilson@floridaDEP.gov and Magan.Bowden@dep.state.fl.us

1.2/0.3 cu-09

640-Tallahassee

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: LAB145

Contract Manager: Trenetta Wilson/Magan Bowden (850) 245-8084/ (850) 245-8095
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins/TestAmerica Laboratories, Inc
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

160-42173 Chain of Custody

DEP Approval By: Trenetta L. Brinkley-Wilson Contractor Approval By: Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 5/18/2021
Means of Contact: Email

Task Assignment Number: OV241 Maximum Cost: **$185.00** Turnaround Time: 21 BD

Sample Delivery Date: 5/20/2021

Project Name/Description:
RQ-2021-05-03-27; NE-DIST-2021-05-18-01; FYI3 FL0000051; TLH-2021-05-18-73

Deliverable Number/ Parameter Group/ Method	Sample Matrix	# of Samples	# of Containers	DEP ID #	Unit Cost	% Mark-up (if any)	Cost
205/Radium-226 EPA 903.1	W	1	1	2247976	$90.00		$90.00
203/Radium-228 EPA 904.0	W	1	1	2247977	$90.00		$90.00
217/Sample Disposal Fee:	2				$2.50		$5.00
Total Number of Containers Shipped:		2				**Total:**	**$185.00**

QC Instructions:

Comments:

Samples released to Contract Lab by: Date/Time: 5/20/2021 1352

Delivery Method: Hand Delivery

Samples Accepted by: Date/Time 5/20/21 1352

Date/Time 5/20/21 1645

* **Please sign and return by email to** Trenetta.L.Wilson@floridaDEP.gov and Magan.Bowden@dep.state.fl.us

5/21/21 1010 ETA 5PL

640-Tallahassee

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: LAB145

Contract Manager: Trenetta Wilson/Magan Bowden (850) 245-8084/ (850) 245-8095
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins/TestAmerica Laboratories, Inc
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: Trenetta L. Brinkley-Wilson Contractor Approval By: _____ Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 5/24/2021
Means of Contact: Email

Task Assignment Number: OV243 Maximum Cost: **$925.00** Turnaround Time: 21 BD

Sample Delivery Date: 5/24/2021

Project Name/Description:
RQ-2021-05-03-27;NE-DIST-2021-05-20-01;FYi3 FL0000051 Florida Mine- Trail Ridge;TLH-2021-05-20-86
RQ-2021-05-03-67;BMR-TAMPA-2021-05-21-01;Piney Point Master May;TLH-2021-05-21-22

Deliverable Number/ Parameter Group/ Method	Sample Matrix	# of Samples	# of Containers	DEP ID #	Unit Cost	% Mark-up (if any)	Cost
205/Radium-226 EPA 903.1	W	5	5	2248916, 2249167-2249170	$90.00		$450.00
203/Radium-228 EPA 904.0	W	5	5	2248917, 2249171-2249174	$90.00		$450.00
217/Sample Disposal Fee:	10				$2.50		$25.00
Total Number of Containers Shipped:	10					**Total:**	**$925.00**

160-42213 Chain of Custody

QC Instructions:

Comments:

13:51

Samples released to Contract Lab by: _____ Date/Time: 5-24-21

Delivery Method: Hand Delivery

Samples Accepted by: _____ Date/Time 5.24.21 1351

Rec'd. 5.24.21 1645

* **Please sign and return by email to** Trenetta.L.Wilson@floridaDEP.gov and Magan.Bowden@dep.state.fl.us

5/25/21 0855 ETA STL

Appendix D. Chemical Analysis of Effluent and Receiving Water

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 12:20	Effluent Grab	AGP/LN	Algal Growth Potential	0.300 U	mg DryWt/L	0.300	0.900
5/17/2021 12:20	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.3 U	µg/L	1.3	3.8
5/17/2021 12:20	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.4 U	µg/L	1.4	4.2
5/17/2021 12:20	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	0.92 U	µg/L	0.92	2.8
5/17/2021 12:20	Effluent Grab	Overflow	Escherichia Coli-Quanti-Tray	6.2	MPN/100 mL	1	1
5/17/2021 12:20	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	2.0 B	cfu/100 mL	1.6	1.6
5/17/2021 12:20	Effluent Grab	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	100 L	IC25		
5/17/2021 12:20	Effluent Grab	Toxicology	Bioassay-Chron-Def-FW-Fish, NOEC	100	NOEC		
5/17/2021 12:20	Effluent Grab	Toxicology	Bioassay-Chron-Def-FW-C.dubia, NOEC	50	NOEC		
5/17/2021 12:20	Effluent Grab	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	100 L	IC25		
5/17/2021 12:20	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
5/17/2021 12:20	Effluent Grab	Metals	Potassium	0.68 I	mg/L	0.30	1.2
5/17/2021 12:20	Effluent Grab	Metals	Arsenic	0.20 I	µg/L	0.050	0.20
5/17/2021 12:20	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
5/17/2021 12:20	Effluent Grab	Metals	Nickel	0.50 U	µg/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Metals	Copper	0.40 U	µg/L	0.40	0.80
5/17/2021 12:20	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
5/17/2021 12:20	Effluent Grab	Metals	Calcium	24.4	mg/L	0.075	0.30
5/17/2021 12:20	Effluent Grab	Metals	Magnesium	1.43	mg/L	0.040	0.16
5/17/2021 12:20	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
5/17/2021 12:20	Effluent Grab	Metals	Mercury	1.3	ng/L	0.10	0.30
5/17/2021 12:20	Effluent Grab	Metals	Sodium	7.2	mg/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Metals	Aluminum	830	µg/L	5.0	20
5/17/2021 12:20	Effluent Grab	Metals	Zinc	5.0 U	µg/L	5.0	20
5/17/2021 12:20	Effluent Grab	Metals	Iron	1.28E+03	µg/L	30	120
5/17/2021 12:20	Effluent Grab	Metals	Hardness	66.8	mg/L	0.35	1.4
5/17/2021 12:20	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
5/17/2021 12:20	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.22	mg N/L	0.080	0.20
5/17/2021 12:20	Effluent Grab	Nutrients	Total Alkalinity	25 A	mg CaCO3/L	0.65	2.5
5/17/2021 12:20	Effluent Grab	Nutrients	Chloride	12 A	mg Cl/L	0.20	0.50
5/17/2021 12:20	Effluent Grab	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.10
5/17/2021 12:20	Effluent Grab	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 12:20	Effluent Grab	Nutrients	Turbidity	2.3 A	NTU	0.10	0.13
5/17/2021 12:20	Effluent Grab	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
5/17/2021 12:20	Effluent Grab	Nutrients	Sulfate	35 A	mg SO4/L	0.20	0.50
5/17/2021 12:20	Effluent Grab	Nutrients	Color (true)	15 A	PCU	2.5	6.0
5/17/2021 12:20	Effluent Grab	Nutrients	Ammonia-N	0.010	mg N/L	0.0020	0.0050
5/17/2021 12:20	Effluent Grab	Nutrients	Organic Carbon	5.4	mg C/L	0.50	1.0
5/17/2021 12:20	Effluent Grab	Nutrients	Total-P	0.003 I	mg P/L	0.0020	0.0050
5/17/2021 12:20	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.050 U	ng/L	0.050	0.20
5/17/2021 12:20	Effluent Grab	Pesticides	Norflurazon	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Parathion Methyl	0.55 U	ng/L	0.55	2.2
5/17/2021 12:20	Effluent Grab	Pesticides	Pendimethalin	1.0 U	ng/L	1.0	4.0
5/17/2021 12:20	Effluent Grab	Pesticides	Prometon	0.91 U	ng/L	0.91	3.5
5/17/2021 12:20	Effluent Grab	Pesticides	Propiconazole	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Azinphos Methyl	2.0 U	ng/L	2.0	8.1
5/17/2021 12:20	Effluent Grab	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.50
5/17/2021 12:20	Effluent Grab	Pesticides	Difenoconazole	0.61 U	ng/L	0.61	2.4
5/17/2021 12:20	Effluent Grab	Pesticides	Iprodione	0.61 U	ng/L	0.61	2.4
5/17/2021 12:20	Effluent Grab	Pesticides	Phorate	0.53 U	ng/L	0.53	2.1
5/17/2021 12:20	Effluent Grab	Pesticides	Alachlor	0.25 U	ng/L	0.25	1.0
5/17/2021 12:20	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.10 U	ng/L	0.10	0.40
5/17/2021 12:20	Effluent Grab	Pesticides	Dithiopyr	0.18 U	ng/L	0.18	0.71
5/17/2021 12:20	Effluent Grab	Pesticides	EPTC	1.3 UJ	ng/L	1.3	5.0
5/17/2021 12:20	Effluent Grab	Pesticides	Fipronil	0.25 U	ng/L	0.25	1.0
5/17/2021 12:20	Effluent Grab	Pesticides	Hexazinone	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Malathion	0.35 U	ng/L	0.35	1.4
5/17/2021 12:20	Effluent Grab	Pesticides	Oxadiazon	0.30 U	ng/L	0.30	1.2
5/17/2021 12:20	Effluent Grab	Pesticides	Prodiamine	0.18 U	ng/L	0.18	0.71
5/17/2021 12:20	Effluent Grab	Pesticides	Simazine	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Atrazine Desethyl	1.5 U	ng/L	1.5	6.1
5/17/2021 12:20	Effluent Grab	Pesticides	Fenbuconazole	0.13 U	ng/L	0.13	0.50
5/17/2021 12:20	Effluent Grab	Pesticides	Fluxapyroxad	0.10 U	ng/L	0.10	0.40
5/17/2021 12:20	Effluent Grab	Pesticides	Fonofos	0.20 U	ng/L	0.20	0.81
5/17/2021 12:20	Effluent Grab	Pesticides	Metalaxyl	0.76 U	ng/L	0.76	3.0
5/17/2021 12:20	Effluent Grab	Pesticides	Mevinphos	1.1 U	ng/L	1.1	4.2

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 12:20	Effluent Grab	Pesticides	Naled	1.5 UJ	ng/L	1.5	6.1
5/17/2021 12:20	Effluent Grab	Pesticides	Pronamide	0.15 U	ng/L	0.15	0.61
5/17/2021 12:20	Effluent Grab	Pesticides	Acetochlor	0.25 U	ng/L	0.25	1.0
5/17/2021 12:20	Effluent Grab	Pesticides	Butylate	0.40 UJ	ng/L	0.40	1.6
5/17/2021 12:20	Effluent Grab	Pesticides	Carbophenothion	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.25 U	ng/L	0.25	1.0
5/17/2021 12:20	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.13 U	ng/L	0.13	0.50
5/17/2021 12:20	Effluent Grab	Pesticides	Imazalil	0.76 U	ng/L	0.76	3.0
5/17/2021 12:20	Effluent Grab	Pesticides	Metribuzin	3.3 U	ng/L	3.3	13
5/17/2021 12:20	Effluent Grab	Pesticides	Molinate	0.30 U	ng/L	0.30	1.2
5/17/2021 12:20	Effluent Grab	Pesticides	Oxyfluorfen	0.15 U	ng/L	0.15	0.61
5/17/2021 12:20	Effluent Grab	Pesticides	Sulfentrazone	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Pyriproxyfen	0.13 U	ng/L	0.13	0.50
5/17/2021 12:20	Effluent Grab	Pesticides	Prometryn	0.20 U	ng/L	0.20	0.81
5/17/2021 12:20	Effluent Grab	Pesticides	Ametryn	0.61 U	ng/L	0.61	2.4
5/17/2021 12:20	Effluent Grab	Pesticides	Azoxystrobin	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Fenamiphos	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Flumioxazin	1.8 U	ng/L	1.8	7.1
5/17/2021 12:20	Effluent Grab	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.40
5/17/2021 12:20	Effluent Grab	Pesticides	Metolachlor	0.35 U	ng/L	0.35	1.4
5/17/2021 12:20	Effluent Grab	Pesticides	Tebuconazole	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Terbuthylazine	0.43 U	ng/L	0.43	1.7
5/17/2021 12:20	Effluent Grab	Pesticides	Atrazine	0.49 I	ng/L	0.25	1.0
5/17/2021 12:20	Effluent Grab	Pesticides	Bromacil	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Demeton	1.5 U	ng/L	1.5	6.1
5/17/2021 12:20	Effluent Grab	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.40
5/17/2021 12:20	Effluent Grab	Pesticides	Disulfoton	0.50 U	ng/L	0.50	2.0
5/17/2021 12:20	Effluent Grab	Pesticides	Fipronil Sulfide	0.15 U	ng/L	0.15	0.61
5/17/2021 12:20	Effluent Grab	Pesticides	Fludioxonil	0.13 U	ng/L	0.13	0.50
5/17/2021 12:20	Effluent Grab	Pesticides	Parathion Ethyl	0.25 U	ng/L	0.25	1.0
5/17/2021 12:20	Effluent Grab	Pesticides	Terbufos	0.10 U	ng/L	0.10	0.40
5/17/2021 12:20	Effluent Grab	Pesticides	Cyanazine	3.3 U	ng/L	3.3	13
5/17/2021 12:20	Effluent Grab	Pesticides	Ethion	0.15 UJ	ng/L	0.15	0.61
5/17/2021 12:20	Effluent Grab	Pesticides	Ethoprop	0.10 U	ng/L	0.10	0.40

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 12:20	Effluent Grab	Pesticides	Fipronil Sulfone	0.15 U	ng/L	0.15	0.61
5/17/2021 12:20	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.40
5/17/2021 12:20	Effluent Grab	Pesticides	Myclobutanil	0.25 U	ng/L	0.25	1.0
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Pyrene	0.098 U	µg/L	0.098	0.39
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	4.9 U	µg/L	4.9	20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	7.8
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Fluorene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.8 UJ	µg/L	9.8	39
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Benzidine	9.8 UJ	µg/L	9.8	39
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	7.8
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	7.8
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	0.98 U	µg/L	0.98	3.9
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.78

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.098 U	µg/L	0.098	0.39
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Anthracene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.49 U	µg/L	0.49	2.0
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	µg/L	2.9	12
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	9.8 U	µg/L	9.8	39
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	9.8 U	µg/L	9.8	39
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Chrysene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.025 U	µg/L	0.025	0.098
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Isophorone	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.098 U	µg/L	0.098	0.39
5/17/2021 12:20	Effluent Grab	Priority Organic Pollutants	Phenol	0.049 U	µg/L	0.049	0.20
5/17/2021 12:20	Effluent Grab	Nutrients	Specific Conductance	176.4	umhos/cm		
5/17/2021 12:20	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	71.8	%Sat		
5/17/2021 12:20	Effluent Grab	Nutrients	pH	7.99	SU		
5/19/2021 9:50	Effluent Grab	Nutrients	pH	7.82	SU		
5/19/2021 9:50	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	76.8	%Sat		
5/19/2021 9:50	Effluent Grab	Nutrients	Temperature	24.8	C		
5/19/2021 9:50	Effluent Grab	Nutrients	Specific Conductance	179.0	umhos/cm		
5/21/2021 10:00	Effluent Grab	Nutrients	Specific Conductance	181.8	umhos/cm		
5/21/2021 10:00	Effluent Grab	Nutrients	Temperature	25.1	C		
5/21/2021 10:00	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	80.5	%Sat		
5/21/2021 10:00	Effluent Grab	Nutrients	pH	7.68	SU		
5/19/2021 10:00	Effluent Composite	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0
5/19/2021 10:00	Effluent Composite	Metals	Copper	0.85	µg/L	0.40	0.80

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/19/2021 10:00	Effluent Composite	Metals	Magnesium	1.54	mg/L	0.040	0.16
5/19/2021 10:00	Effluent Composite	Metals	Selenium	0.20 U	µg/L	0.20	0.80
5/19/2021 10:00	Effluent Composite	Metals	Aluminum	797	µg/L	5.0	20
5/19/2021 10:00	Effluent Composite	Metals	Silver	0.010 U	µg/L	0.010	0.040
5/19/2021 10:00	Effluent Composite	Metals	Nickel	0.50 U	µg/L	0.50	2.0
5/19/2021 10:00	Effluent Composite	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
5/19/2021 10:00	Effluent Composite	Metals	Arsenic	0.16 I	µg/L	0.050	0.20
5/19/2021 10:00	Effluent Composite	Metals	Zinc	5.0 U	µg/L	5.0	20
5/19/2021 10:00	Effluent Composite	Metals	Calcium	25.4	mg/L	0.075	0.30
5/19/2021 10:00	Effluent Composite	Metals	Lead	0.20 U	µg/L	0.20	0.40
5/19/2021 10:00	Effluent Composite	Metals	Iron	1.25E+03	µg/L	30	120
5/19/2021 10:00	Effluent Composite	Metals	Sodium	7.3	mg/L	0.50	2.0
5/19/2021 10:00	Effluent Composite	Metals	Chromium	0.40 U	µg/L	0.40	1.6
5/19/2021 10:00	Effluent Composite	Metals	Potassium	0.70 I	mg/L	0.30	1.2
5/19/2021 10:00	Effluent Composite	Nutrients	TSS	4 I	mg/L	2.0	10
5/19/2021 10:00	Effluent Composite	Overflow	Radium 226-Counting Error	0.350	pCi/L	0.423	
5/19/2021 10:00	Effluent Composite	Overflow	Radium 226	0.793	pCi/L	0.423	
5/19/2021 10:00	Effluent Composite	Overflow	Radium 228-Counting Error	0.427	pCi/L	0.534	
5/19/2021 10:00	Effluent Composite	Overflow	Radium 228	1.66 J	pCi/L	0.534	
5/17/2021 8:15	Equipment Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
5/17/2021 8:15	Equipment Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
5/17/2021 8:15	Equipment Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
5/17/2021 8:15	Equipment Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
5/17/2021 8:15	Equipment Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
5/17/2021 8:15	Equipment Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
5/17/2021 8:15	Equipment Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
5/17/2021 8:15	Equipment Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
5/17/2021 8:15	Equipment Blank	Metals	Iron	30 U	µg/L	30	120
5/17/2021 8:15	Equipment Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
5/17/2021 8:15	Equipment Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
5/17/2021 8:15	Equipment Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
5/17/2021 8:15	Equipment Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
5/17/2021 8:15	Equipment Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
5/17/2021 8:15	Equipment Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 8:15	Equipment Blank	Overflow	Radium 226	0.316 U	pCi/L	0.316	
5/17/2021 8:15	Equipment Blank	Overflow	Radium 226-Counting Error	0.154	pCi/L	0.316	
5/17/2021 8:15	Equipment Blank	Overflow	Radium 228	0.532 UJ	pCi/L	0.532	
5/17/2021 8:15	Equipment Blank	Overflow	Radium 228-Counting Error	0.316	pCi/L	0.532	
5/17/2021 11:35	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
5/17/2021 11:35	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
5/17/2021 11:35	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
5/17/2021 11:35	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
5/17/2021 11:35	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
5/17/2021 11:35	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
5/17/2021 11:35	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
5/17/2021 11:35	Field Blank	Metals	Iron	30 U	µg/L	30	120
5/17/2021 11:35	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
5/17/2021 11:35	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
5/17/2021 11:35	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
5/17/2021 11:35	Field Blank	Metals	Mercury	0.10 U	ng/L	0.10	0.30
5/17/2021 11:35	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
5/17/2021 11:35	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
5/17/2021 11:35	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
5/17/2021 11:35	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
5/17/2021 11:35	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
5/17/2021 11:35	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
5/17/2021 11:35	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
5/17/2021 11:35	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
5/17/2021 11:35	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
5/17/2021 11:35	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
5/17/2021 11:35	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
5/17/2021 11:35	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	0.13
5/17/2021 11:35	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
5/17/2021 11:35	Field Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.10
5/17/2021 11:35	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
5/17/2021 11:35	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
5/17/2021 11:35	Field Blank	Pesticides	Pendimethalin	0.95 U	ng/L	0.95	3.8
5/17/2021 11:35	Field Blank	Pesticides	Demeton	1.4 U	ng/L	1.4	5.7

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 11:35	Field Blank	Pesticides	Fenamiphos	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Fenbuconazole	0.12 U	ng/L	0.12	0.48
5/17/2021 11:35	Field Blank	Pesticides	Malathion	0.33 U	ng/L	0.33	1.3
5/17/2021 11:35	Field Blank	Pesticides	Simazine	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Terbuthylazine	0.41 U	ng/L	0.41	1.6
5/17/2021 11:35	Field Blank	Pesticides	Oxadiazon	0.29 U	ng/L	0.29	1.1
5/17/2021 11:35	Field Blank	Pesticides	Bromacil	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Butylate	0.38 UJ	ng/L	0.38	1.5
5/17/2021 11:35	Field Blank	Pesticides	Cyanazine	3.1 U	ng/L	3.1	12
5/17/2021 11:35	Field Blank	Pesticides	Dithiopyr	0.17 U	ng/L	0.17	0.67
5/17/2021 11:35	Field Blank	Pesticides	Fipronil Sulfone	0.14 U	ng/L	0.14	0.57
5/17/2021 11:35	Field Blank	Pesticides	Fluazifop-P-butyl	0.095 U	ng/L	0.095	0.38
5/17/2021 11:35	Field Blank	Pesticides	Flutolanil	0.095 U	ng/L	0.095	0.38
5/17/2021 11:35	Field Blank	Pesticides	Metalaxyl	0.71 U	ng/L	0.71	2.9
5/17/2021 11:35	Field Blank	Pesticides	Metolachlor	0.33 U	ng/L	0.33	1.3
5/17/2021 11:35	Field Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	4.0
5/17/2021 11:35	Field Blank	Pesticides	Pronamide	0.14 U	ng/L	0.14	0.57
5/17/2021 11:35	Field Blank	Pesticides	Tebuconazole	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Norflurazon	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Phorate	0.50 U	ng/L	0.50	2.0
5/17/2021 11:35	Field Blank	Pesticides	Prometon	0.86 U	ng/L	0.86	3.3
5/17/2021 11:35	Field Blank	Pesticides	Fipronil Desulfinyl	0.12 U	ng/L	0.12	0.48
5/17/2021 11:35	Field Blank	Pesticides	Metribuzin	3.1 U	ng/L	3.1	12
5/17/2021 11:35	Field Blank	Pesticides	Oxyfluorfen	0.14 U	ng/L	0.14	0.57
5/17/2021 11:35	Field Blank	Pesticides	Parathion Ethyl	0.24 U	ng/L	0.24	0.95
5/17/2021 11:35	Field Blank	Pesticides	Atrazine	0.24 U	ng/L	0.24	0.95
5/17/2021 11:35	Field Blank	Pesticides	Azinphos Methyl	1.9 U	ng/L	1.9	7.6
5/17/2021 11:35	Field Blank	Pesticides	Ethion	0.14 UJ	ng/L	0.14	0.57
5/17/2021 11:35	Field Blank	Pesticides	Ethoprop	0.095 U	ng/L	0.095	0.38
5/17/2021 11:35	Field Blank	Pesticides	Molinate	0.29 U	ng/L	0.29	1.1
5/17/2021 11:35	Field Blank	Pesticides	Alachlor	0.24 U	ng/L	0.24	0.95
5/17/2021 11:35	Field Blank	Pesticides	EPTC	1.2 UJ	ng/L	1.2	4.8
5/17/2021 11:35	Field Blank	Pesticides	Flumioxazin	1.7 U	ng/L	1.7	6.7
5/17/2021 11:35	Field Blank	Pesticides	Fonofos	0.19 U	ng/L	0.19	0.76

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 11:35	Field Blank	Pesticides	Propiconazole	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Pyriproxyfen	0.12 U	ng/L	0.12	0.48
5/17/2021 11:35	Field Blank	Pesticides	Terbufos	0.095 U	ng/L	0.095	0.38
5/17/2021 11:35	Field Blank	Pesticides	Azoxystrobin	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Carfentrazone Ethyl	0.095 U	ng/L	0.095	0.38
5/17/2021 11:35	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.24 U	ng/L	0.24	0.95
5/17/2021 11:35	Field Blank	Pesticides	Difenoconazole	0.57 U	ng/L	0.57	2.3
5/17/2021 11:35	Field Blank	Pesticides	Disulfoton	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Fipronil Sulfide	0.14 U	ng/L	0.14	0.57
5/17/2021 11:35	Field Blank	Pesticides	Hexazinone	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Imazalil	0.71 U	ng/L	0.71	2.9
5/17/2021 11:35	Field Blank	Pesticides	Myclobutanil	0.24 U	ng/L	0.24	0.95
5/17/2021 11:35	Field Blank	Pesticides	Prometryn	0.19 U	ng/L	0.19	0.76
5/17/2021 11:35	Field Blank	Pesticides	Naled	1.4 UJ	ng/L	1.4	5.7
5/17/2021 11:35	Field Blank	Pesticides	Ametryn	0.57 U	ng/L	0.57	2.3
5/17/2021 11:35	Field Blank	Pesticides	Carbophenothion	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Pesticides	Chlorpyrifos Methyl	0.048 U	ng/L	0.048	0.19
5/17/2021 11:35	Field Blank	Pesticides	Diazinon	0.12 U	ng/L	0.12	0.48
5/17/2021 11:35	Field Blank	Pesticides	Dimethenamid	0.095 U	ng/L	0.095	0.38
5/17/2021 11:35	Field Blank	Pesticides	Fipronil	0.24 U	ng/L	0.24	0.95
5/17/2021 11:35	Field Blank	Pesticides	Fludioxonil	0.12 U	ng/L	0.12	0.48
5/17/2021 11:35	Field Blank	Pesticides	Parathion Methyl	0.52 U	ng/L	0.52	2.1
5/17/2021 11:35	Field Blank	Pesticides	Prodiamine	0.17 U	ng/L	0.17	0.67
5/17/2021 11:35	Field Blank	Pesticides	Acetochlor	0.24 U	ng/L	0.24	0.95
5/17/2021 11:35	Field Blank	Pesticides	Atrazine Desethyl	1.4 U	ng/L	1.4	5.7
5/17/2021 11:35	Field Blank	Pesticides	Fluxapyroxad	0.095 U	ng/L	0.095	0.38
5/17/2021 11:35	Field Blank	Pesticides	Iprodione	0.57 U	ng/L	0.57	2.3
5/17/2021 11:35	Field Blank	Pesticides	Sulfentrazone	0.48 U	ng/L	0.48	1.9
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Isophorone	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Fluorene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Chrysene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 U	µg/L	0.024	0.096

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.6 U	µg/L	9.6	38
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	9.6 U	µg/L	9.6	38
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Acenaphthene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.19 U	µg/L	0.19	0.77
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	µg/L	1.9	7.7
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Naphthalene	0.096 U	µg/L	0.096	0.38
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.48 U	µg/L	0.48	1.9
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	µg/L	2.9	12
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Fluoranthene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Benzidine	9.6 U	µg/L	9.6	38
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	4-Nitrophenol	9.6 U	µg/L	9.6	38
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Anthracene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.048 U	µg/L	0.048	0.19

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Phenol	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.96 U	µg/L	0.96	3.8
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Phenanthrene	0.096 U	µg/L	0.096	0.38
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Pyrene	0.096 U	µg/L	0.096	0.38
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.048 U	µg/L	0.048	0.19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	4.8 U	µg/L	4.8	19
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	µg/L	1.9	7.7
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 U	µg/L	0.024	0.096
5/17/2021 11:35	Field Blank	Priority Organic Pollutants	Diethyl phthalate	1.9 U	µg/L	1.9	7.7