Effluent Quality Assessment of Florida Distillers- Lake Alfred Polk County NPDES # FL0029017 Sampled April 18, 2022

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
August 2022

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Summary of Results

All analytes measured in the effluent grab sample complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits. The AGP and nutrient results show no evidence of nutrient enrichment. There were 4 organic constituents detected in the effluent grab sample.

Facility Overview

The Florida Distillers– Lake Alfred Facility is an industrial wastewater treatment facility that manufactures and packages alcoholic beverages from the fermentation of citrus, cane, and other sugars. 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 effluent is continuously discharged into a wetland system of the Lake Hamilton Drain watershed, a Class III Fresh Water [waterbody identification (WBID) 1504B] (Figure 1).

The Lake Hamilton Drain falls within the West Central Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). For this region, the NNC, expressed as annual geometric means, are 0.49 mg/L total phosphorus and 1.65 mg/L total nitrogen (Paragraph 62-302.531(2)(c), F.A.C.). The receiving waterbody falls within the Peninsula bioregion; the daily average dissolved oxygen (DO) saturation shall not be below 38 percent in more than 10 percent of the values (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 grab samples were collected at outfall D-003 on April 18, 2022. Samples were collected by Emily Larson and Margaret Dorge (Southwest District Office). Analyses were performed by Eurofins Environment Testing America Laboratories in Pensacola and Tampa, 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 Chapter 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.

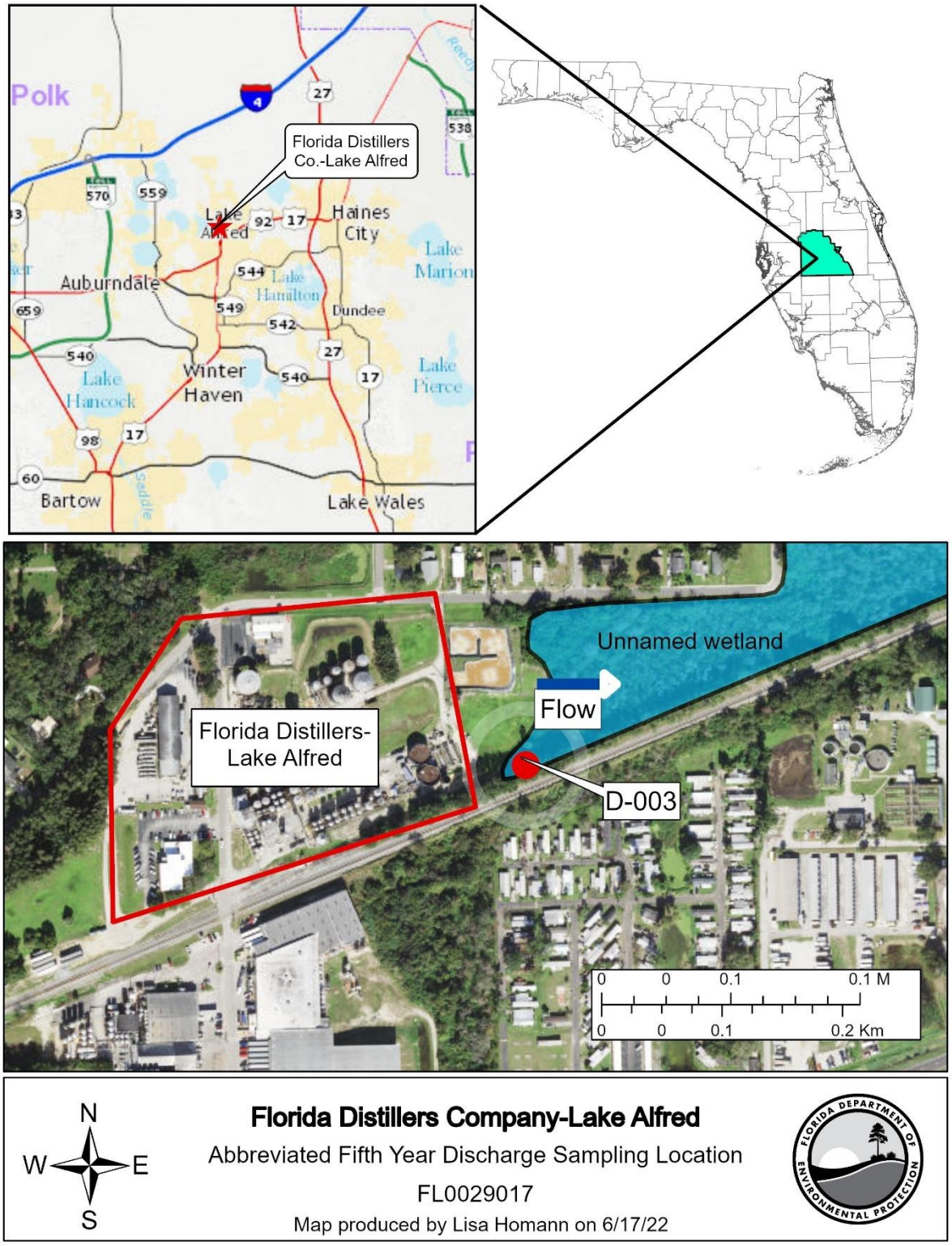


Figure 1. Map of Florida Distillers - Lake Alfred and Discharge Location

Results

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

- All 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 sample complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed April 19 through April 23, 2022.

- The sample was aerated for 20 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 10.3 mg/L to 8.4 mg/L.

- Acute bioassay results are reported as the Concentration Lethal to 50% of the test organisms (LC50).

- For the 96-hour acute definitive test, the calculated LC50 for the water flea, *Ceriodaphnia dubia*, was > 100% effluent with 0% mortality in 100% sample. The calculated LC50 for the fish, *Cyprinella leedsi*, was > 100% effluent with 20% mortality in 100% sample. The effluent sample was not toxic to either test species during the 96-hour acute definitive bioassays and therefore, complied with effluent permit limits.

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

Metals (See Table 3 and Appendix D)

- Effluent metals complied with Class III Water Quality Criteria for Fresh Waters. There are no effluent permit limits for metals.

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 samples. The analytical chemistry suggests that the effluent is nitrogen-limited (Miller et al. 1978).

- The effluent grab sample AGP result of 0.311 mg dry wt/L is within the AGP range (0.11 to 0.80 mg dry wt/L) suggested to be representative of moderate productivity for freshwater (Miller et al. 1978).

Organic Constituents (See Table 5 and Appendix D)

- Atrazine, metolachlor, norflurazon, and tebuconazole were detected in the effluent grab sample.

- 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 D-003
Temperature	C	-	≤ 33.3	22.8
pH	SU	6.0 - 8.5	6.0 - 8.5	8.2
Specific Conductance	µmhos/cm	≤ 1,275	≤ 1,275	289.3
Salinity	ppt	-	-	0.1 c
Dissolved Oxygen	% saturation	≥ 38	≥ 38	98.6
Dissolved Oxygen	mg/L	-	Report	8.5

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

Table 2. Analytical water chemistry and toxicological data

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Ortho-phosphate	mg P/L	-	Report	0.039
Total Phosphorus	mg P/L	≤ 0.49 g	Report	0.052
Total Ammonia	mg N/L	≤ 1.25 s	Report	0.024
Un-ionized Ammonia (calculated salinity)	mg N/L	-	-	≤ 0.02 c
Nitrate and Nitrite	mg N/L	-	Report	0.20
Total Kjeldahl Nitrogen	mg N/L	-	Report	0.13 I
Organic Nitrogen	mg N/L	-	-	0.11 c
Total Nitrogen	mg N/L	≤ 1.65 g	Report	0.3 c
Total Organic Carbon	mg C/L	-	-	1.5
Chlorophyll *a* - Corrected	µg/L	-	-	0.95 I
Phaeophytin	µg/L	-	-	0.90 U
CBOD, 5 day, N - inhibited	mg/L	-	≤ 10	2.0 U
Total Suspended Solids	mg/L	-	≤ 20	2 U
Turbidity	NTU	≤ 29 t	-	0.40 I
Color (true)	PCU	-	-	4.3 I
Alkalinity	mg CaCO3/L	≥ 20	-	132 A
Chloride	mg Cl/L	-	-	11
Fluoride	mg F/L	≤ 10.0	-	0.15
Sulfate	mg SO4/L	-	-	2.4
Oils and Greases	mg/L	≤ 5.0	≤ 5.0	3 U
Bioassay - Water flea *(Ceriodaphnia dubia)*	% effluent	-	≥ 100 s	> 100
Bioassay - Fish *(Cyprinella leedsi)*	% effluent	-	≥ 100 s	> 100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
A - Value reported is the mean of two or more determinations.
c - Value is calculated.
g - Value expressed as an annual geometric mean.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
s - Single sample.
t - Shall not exceed 29 NTUs above background.
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	Class III Criteria	Effluent Permit Limits	Effluent Grab
Hardness	mg CaCO3/L	-	-	139 c
Aluminum	µg/L	-	-	5.0 U
Arsenic	µg/L	≤ 50	-	1.05
Cadmium	µg/L	≤ 0.346 b	-	0.020 U
Calcium	mg/L	-	-	41.8
Chromium, Total [1]	µg/L	≤ 113 b	-	0.40 U
Copper	µg/L	≤ 12.4 b	-	0.71 I
Iron	µg/L	≤ 1,000	-	89 I
Lead	µg/L	≤ 4.84 b	-	0.20 U
Magnesium	mg/L	-	-	8.43
Nickel	µg/L	≤ 69 b	-	0.50 U
Potassium	mg/L	-	-	1.6
Selenium	µg/L	≤ 5.0	-	0.20 U
Silver	µg/L	≤ 0.07	-	0.010 U
Sodium	mg/L	-	-	7.7
Zinc	µg/L	≤ 158 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
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 Water Quality Criterion for Fresh Waters (Paragraph 62-302.530(19)(a), F.A.C.) is for chromium-III

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*	0.311 I	8.5 ± 1.7	16.8 ± 3.4	12.5 ± 2.5	22.4 ± 4.5	5.7	6.3

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 5. Detected Organic Constituents

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical organic and pesticides.

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Atrazine	ng/L	-	-	0.67 I
Metolachlor	ng/L	-	-	0.78 I
Norflurazon	ng/L	-	-	1.3 I
Tebuconazole	ng/L	-	-	0.57 I

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

Appendix A. Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event

Prepared By: Lance Kautz	**Contact Number:** 813-470-5903
Facility Name (as it appears on permit): Florida Distillers Company - Lake Alfred Plant	**Former Names:**
NPDES Permit Number: FL0029017	**Permit Expiration Date:** November 25, 2022
Physical Address: 620 Dakota Avenue Lake Alfred, Florida 33850	
District: Southwest	**County:** Polk
Function of Facility: Cane and citrus molasses fermentation and distillation process to produce ethyl alcohol	
Facility Type: Industrial Wastewater	**Permitted Capacity (MGD):** 1.503

Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months):
3/1/2021 - 4/1/2022
0.124 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):

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow measurement device on discharge side of pumps prior to land application
EFF-1	Effluent to spray field and percolation pond
FLW-3	Flow measurement device at Outfall D-003
EFF-3	Effluent sampling point is at weir box, located on the far south of the eastern most spray-field
RMP-R	After treatment and before disposal

Description of Permitted Outfall(s):

Surface Water Discharge D-003: An existing 1.4 MGD [Monthly Average Daily Flow] permitted discharge to a wetland in the Lake Hamilton Drain watershed, Class III Fresh Waters, (WBID# 1504B) which is located approximately at latitude 28°5' 53" N, longitude 81°43' 15" W.

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

Wastewater entering the industrial wastewater treatment plant at this facility is a collection of evaporation condensate, boiler blowdown, cooling tower blowdown, wash-ups and spills from the fermenters, cleaning water, and wastewater from the neighboring MIZKAN vinegar bottling operations. A maximum flow of 0.163 MGD of wastewater is generated from these operations. Onsite disposal of treated wastewater is limited to 0.103 MGD monthly average. Offsite disposal of treated wastewater to City of Lake Alfred is limited to a maximum flow of 0.06 MGD. Wastewater treatment consists of neutralization, flow equalization and biological treatment through an aeration activated sludge plant. First, the MIZKAN wastewater flow is routed directly to the aerated aerobic wastewater treatment unit (the aeration tank No.2) or to the lined aerated equalization basin as needed to minimize increases to the sodium concentrations in the treated wastewater. Then, the treated wastewater is either spray-irrigated in 5.36 acres of spray-field or discharged to a 0.51-acre percolation pond.

The influent wastewater flows to a 1.7-million-gallon lined collection and aeration pond where equalization occurs. The wastewater is neutralized as needed with potassium hydroxide. From the pond, the wastewater is pumped to the mixed liquor aeration tank No. 1 (340,000 gallons) for biological treatment. The mixed liquor flows from aeration Tank No. 1 by gravity to mixed liquor aeration tank No. 2 (340,000 gallons) for additional aeration and bacteriological treatment. Aeration tank No. 2 discharges through the overflow by gravity into two 30,000-gallon clarifiers. A Return Activated Sludge (RAS)/ Waste Activated Sludge (WAS) pump station receives underflow from the clarifiers with RAS pumped to the two aeration tanks with waste activated sludge pumped to a 51,000-gallon sludge digester. Discharge from the sludge digester flows to the adjacent sludge hauling pump station. The waste activated sludge is disposed offsite as described in Section II of this permit.

Once through and recirculating non-contact cooling water (1.4 MGD) is combined with stormwater and discharges to a wetland system of the Lake Hamilton Drain watershed WBID 1540B (Class III freshwaters) via Outfall D-003.

PART I: Continued

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

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	1.4 Report	Monthly Average Daily Maximum	Daily; 24 hours	Meter	FLW-3	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max	10.0	Daily Maximum	Monthly	Grab	EFF-3	
Solids, Total Suspended	mg/L	Max	20.0	Daily Maximum	Monthly	Grab	EFF-3	
Temperature (C), Water	Deg C	Max	33.3	Daily Maximum	Monthly	In Situ	EFF-3	
Oil and Grease	mg/L	Max	5.0	Daily Maximum	Monthly	Grab	EFF-3	
Oxygen, Dissolved	mg/L	Min	Report	Daily Minimum	Monthly	In Situ	EFF-3	
Oxygen, Dissolved Percent Saturation	Percent	Min	38	Daily Minimum	Monthly	In Situ	EFF-3	
Specific Conductance	µmhos/cm	Max Max	Report 1275	Monthly Average Daily Maximum	Monthly	In Situ	EFF-3	
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Monthly	In Situ	EFF-3	
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-3	
Nitrogen, Total	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-3	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-3	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Daily Maximum Monthly Average	Quarterly	Grab	EFF-3	See I.A.5
Phosphorus, Total (as P)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-3	
Phosphate, Ortho (as P)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-3	
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	Percent	Min	100	Single Sample	Annually	Grab	EFF-3	See I.**Error! Reference source not found.**.6
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	Percent	Min	100	Single Sample	Annually	Grab	EFF-3	See I.**Error! Reference source not found.**.6

PART I: Continued

Receiving Waters:	**Classification (indicate whether fresh or marine):**
Lake Hamilton Drain	Class III Fresh Water

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

1. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-003.

   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 toxicity tests shall be conducted once every six months. Monitoring is not required during monitoring periods when no discharge has occurred.

   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 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 (or the current addition). 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 (or the current addition).

   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, 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, 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, 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 (or the current addition), and included with the bioassay laboratory reports.

   f. Reporting Requirements
      (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
         (a) Routine Test Results: If an LC50 >100% effluent occurs in the test for the test species, ">100%" shall

be entered on the DMR for that test species. If an LC50 <100% effluent occurs, the calculated LC50 effluent concentration shall be entered on the DMR for that test species.

(b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value shall be entered on the DMR for that test species.

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

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

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

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

(6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

g. Test Failures

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

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the acute toxicity limitation in I.A.6.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with I.A.6.d.

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

(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the procedures in EPA-821-R-02-012 (or the current addition).

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

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

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

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

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

(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with I.A.6.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 I.A.6.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012 (or the current addition), 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 I.A.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. 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, 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) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for

whole effluent toxicity failures.

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.):

N/A

Facility Mixing Zone Details (if applicable):
N/A

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

Describe previous FYI and WQBEL study:
Most parameters below permitted levels, AGP of 12.8 mg dry wt/L

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

Describe any violations or problems noted in previous inspection:

CEI 10/15/2019
Deficiency: Flow meter calibrations for the sprayfields were not conducted annually

Deficiency: The following groundwater exceedances were observed during the above review period:
Sodium Exceedances

Monitoring Well ID	Date	Result (mg/L)	Limit (mg/L)
MWC-3	Dec. 2017	182	160
MWC-5	June 2017	164	160
MWC-5	Dec. 2017	186	160
MWC-11	June 2018	161	160

Arsenic Exceedances

Monitoring Well ID	Date	Result (mg/L)	Limit (mg/L)
MWC-4	Dec. 2018	0.0116	0.01
MWC-5	June 2019	0.012	0.01
MWC-11	June 2018	0.0139	0.01

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

DMR trends seem stable.

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

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 (Chapter 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.

- **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..

- **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.

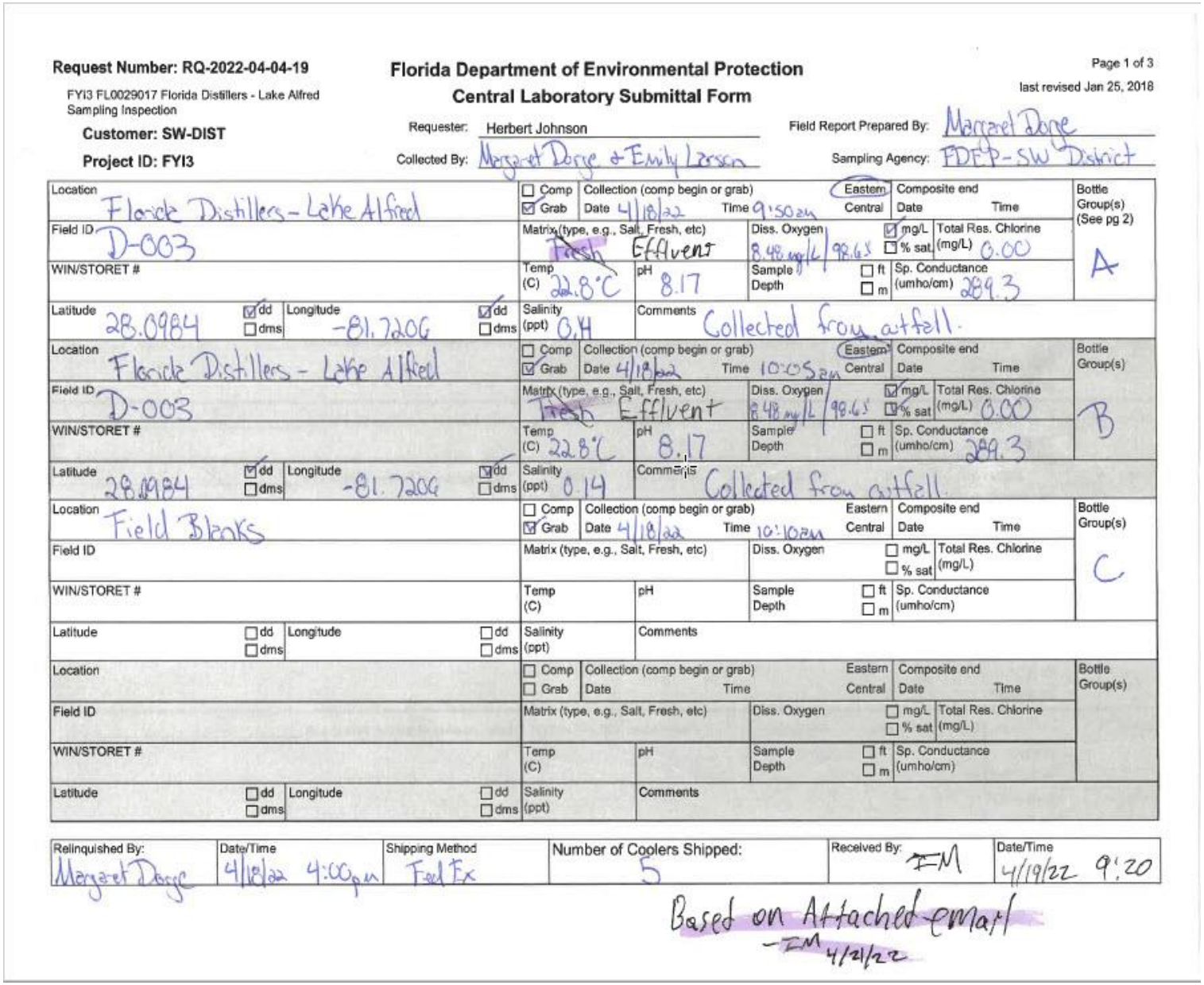
  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble 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.

- **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-2022-04-04-19

FYI3 FL0029017 Florida Distillers - Lake Alfred Sampling Inspection

Customer: SW-DIST

Project ID: FYI3

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 3

last revised Jan 25, 2018

Requester: Herbert Johnson

Field Report Prepared By: Margaret Dorge

Collected By: Margaret Dorge & Emily Larsen

Sampling Agency: FDEP-SW District

Location: Florida Distillers - Lake Alfred	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/18/22 Time 9:50 am	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2): A					
Field ID: D-003	Matrix (type, e.g., Salt, Fresh, etc): Fresh Effluent	Diss. Oxygen: 8.48 mg/L / 98.6 %	☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L): 0.00							
WIN/STORET #	Temp (C): 22.8°C	pH: 8.17	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm): 289.3							
Latitude: 28.0984 ☑ dd ☐ dms	Longitude: -81.7206 ☑ dd ☐ dms	Salinity (ppt): 0.4	Comments: Collected from outfall.								
Location: Florida Distillers - Lake Alfred	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/18/22 Time 10:05 am	Eastern Central	Composite end Date	Time	Bottle Group(s): B					
Field ID: D-003	Matrix (type, e.g., Salt, Fresh, etc): Fresh Effluent	Diss. Oxygen: 8.48 mg/L / 98.6 %	☑ mg/L ☑ % sat	Total Res. Chlorine (mg/L): 0.00							
WIN/STORET #	Temp (C): 22.8°C	pH: 8.17	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm): 289.3							
Latitude: 28.0984 ☑ dd ☐ dms	Longitude: -81.7206 ☑ dd ☐ dms	Salinity (ppt): 0.14	Comments: Collected from outfall.								
Location: Field Blanks	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/18/22 Time 10:10 am	Eastern Central	Composite end Date	Time	Bottle Group(s): C					
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
Margaret Dorge	4/18/22 4:00 pm	Fed Ex	5	EM	4/19/22 9:20

Based on Attached email
-EM 4/21/22

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

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

Contractor: Eurofins Environmental Testing Southeast, LLC
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: Linda S. Allen Contractor Approval By: Noel Savoie
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 3/9/2022
Means of Contact: Email

Task Assignment Number: OV339 Maximum Cost: **$36.25** Turnaround Time: 5 BD

Sample Delivery Date: 4/19/2027

Project Name/Description:
RQ-2022-04-04-19;FY13 FL0029017 Florida Distillers - Lake Alfred Sampling Inspection

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		$33.75		$33.75
217/Sample Disposal Fee:		1			$2.50		$2.50
Total Number of Containers Shipped:		1				**Total:**	$36.25


660-119501 Chain of Custody

Loc: 660
119501

QC Instructions:

Comments: Quote # 66017169 - 0

Samples released to Contract Lab by: Margaret Dorge Date/Time: 4/18/2022 4:00pm

Delivery Method: _____ Shipping

Samples Accepted by: _____ Date/Time 4/19/22 9:10

* **Please sign and return by email** to Linda.S.Allen@FloridaDEP.gov and Magan.Bowden@dep.state.fl.us

640 Tallahassee

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

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

Contractor: Eurofins Environmental Testing Southeast, LLC
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: Linda S. Allen Contractor Approval By: Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 4/19/2022
Means of Contact: Email

400-218800 COC

Task Assignment Number: OV348 Maximum Cost: **$117.00** Turnaround Time: 10 BD

Sample Delivery Date: 4/20/2022

Project Name/Description:
RQ-2022-04-04-19;SW-DIST-2022-04-19-02;FY13 FL0029017 Florida Distillers;TLH-2022-04-19-68

Deliverable Number/ Parameter Group/ Method	**Sample Matrix**	**# of Samples**	**# of Containers**	**DEP ID #**	**Unit Cost**	**% Mark-up (if any)**	**Cost**
173/HEM-Oil and Grease 1664B	W	2	4	2320067, 2320068	$56.00		$112.00
217/Sample Disposal Fee:	2				$2.50		$5.00
Total Number of Containers Shipped:		4				**Total:**	**$117.00**

QC Instructions:

Comments:

Samples released to Contract Lab by: Date/Time: 4.20.22 / 1540

Delivery Method: HD

Samples Accepted by: Date/Time 4.20.22 / 1540

* **Please sign and return by email to** Linda.S.Allen@FloridaDEP.gov and Magan.Bowden@dep.state.fl.us

4.21.22 09:44 Temp 0.0°C IR9

Appendix D. Chemical Analysis of Effluent

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 9:50	Effluent Grab	AGP/LN	Algal Growth Potential	0.311 I	mg DryWt/L	0.300	0.900
4/18/2022 9:50	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 U	µg/L	0.90	2.7
4/18/2022 9:50	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	0.90 I	µg/L	0.60	1.8
4/18/2022 9:50	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.95 I	µg/L	0.82	2.5
4/18/2022 9:50	Effluent Grab	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0
4/18/2022 9:50	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
4/18/2022 9:50	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
4/18/2022 9:50	Effluent Grab	Metals	Calcium	41.8	mg/L	0.075	0.30
4/18/2022 9:50	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
4/18/2022 9:50	Effluent Grab	Metals	Arsenic	1.05	µg/L	0.050	0.20
4/18/2022 9:50	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
4/18/2022 9:50	Effluent Grab	Metals	Magnesium	8.43	mg/L	0.040	0.16
4/18/2022 9:50	Effluent Grab	Metals	Sodium	7.7	mg/L	0.50	2.0
4/18/2022 9:50	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
4/18/2022 9:50	Effluent Grab	Metals	Nickel	0.50 U	µg/L	0.50	2.0
4/18/2022 9:50	Effluent Grab	Metals	Aluminum	5.0 U	µg/L	5.0	20
4/18/2022 9:50	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
4/18/2022 9:50	Effluent Grab	Metals	Iron	89 I	µg/L	30	120
4/18/2022 9:50	Effluent Grab	Metals	Zinc	5.0 U	µg/L	5.0	20
4/18/2022 9:50	Effluent Grab	Metals	Copper	0.71 I	µg/L	0.40	0.80
4/18/2022 9:50	Effluent Grab	Metals	Potassium	1.6	mg/L	0.30	1.2
4/18/2022 9:50	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
4/18/2022 9:50	Effluent Grab	Nutrients	Color (true)	4.3 I	PCU	2.5	6.0
4/18/2022 9:50	Effluent Grab	Nutrients	O-Phosphate-P	0.039	mg P/L	0.0040	0.010
4/18/2022 10:05	Effluent Grab	Nutrients	Total-P	0.050	mg P/L	0.0050	0.050
4/18/2022 9:50	Effluent Grab	Nutrients	Chloride	11	mg Cl/L	0.20	0.50
4/18/2022 9:50	Effluent Grab	Nutrients	TSS	2 U	mg/L	2.0	10
4/18/2022 9:50	Effluent Grab	Nutrients	Fluoride	0.15	mg F/L	0.035	0.10
4/18/2022 9:50	Effluent Grab	Nutrients	Total-P	0.052	mg P/L	0.0050	0.050
4/18/2022 9:50	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.13 I	mg N/L	0.080	0.20
4/18/2022 9:50	Effluent Grab	Nutrients	Organic Carbon	1.5	mg C/L	0.50	1.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 10:05	Effluent Grab	Nutrients	Organic Carbon	1.5	mg C/L	0.50	1.0
4/18/2022 9:50	Effluent Grab	Nutrients	NO2NO3-N	0.20	mg N/L	0.0040	0.010
4/18/2022 9:50	Effluent Grab	Nutrients	Sulfate	2.4	mg SO4/L	0.20	0.50
4/18/2022 10:05	Effluent Grab	Nutrients	NO2NO3-N	0.20	mg N/L	0.0040	0.010
4/18/2022 10:05	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.13 I	mg N/L	0.080	0.20
4/18/2022 9:50	Effluent Grab	Nutrients	Ammonia-N	0.024	mg N/L	0.0020	0.0050
4/18/2022 10:05	Effluent Grab	Nutrients	Ammonia-N	0.024	mg N/L	0.0020	0.0050
4/18/2022 9:50	Effluent Grab	Nutrients	Total Alkalinity	132 A	mg CaCO3/L	0.65	2.5
4/18/2022 9:50	Effluent Grab	Nutrients	Turbidity	0.40 I	NTU	0.10	1.0
4/18/2022 9:50	Effluent Grab	Overflow	HEM	3.0 U	mg/L	3.0	8.5
4/18/2022 9:50	Effluent Grab	Pesticides	Malathion	0.37 U	ng/L	0.37	1.5
4/18/2022 9:50	Effluent Grab	Pesticides	Naled	1.6 U	ng/L	1.6	6.3
4/18/2022 9:50	Effluent Grab	Pesticides	Pendimethalin	1.0 U	ng/L	1.0	4.2
4/18/2022 9:50	Effluent Grab	Pesticides	Etridiazole	0.16 U	ng/L	0.16	0.63
4/18/2022 9:50	Effluent Grab	Pesticides	Propargite	1.6 U	ng/L	1.6	6.3
4/18/2022 9:50	Effluent Grab	Pesticides	Atrazine Desethyl	1.6 U	ng/L	1.6	6.3
4/18/2022 9:50	Effluent Grab	Pesticides	Demeton	1.6 U	ng/L	1.6	6.3
4/18/2022 9:50	Effluent Grab	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Disulfoton	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	EPTC	1.3 U	ng/L	1.3	5.2
4/18/2022 9:50	Effluent Grab	Pesticides	Ethoprop	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Fonofos	0.21 U	ng/L	0.21	0.84
4/18/2022 9:50	Effluent Grab	Pesticides	Metalaxyl	0.78 U	ng/L	0.78	3.1
4/18/2022 9:50	Effluent Grab	Pesticides	Phorate	0.55 U	ng/L	0.55	2.2
4/18/2022 9:50	Effluent Grab	Pesticides	Pyriproxyfen	0.13 U	ng/L	0.13	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Sulfentrazone	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Propanil	0.13 U	ng/L	0.13	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Stirophos	0.13 U	ng/L	0.13	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Triadimefon	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Bromacil	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Carbophenothion	0.21 U	ng/L	0.21	0.84
4/18/2022 9:50	Effluent Grab	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Imazalil	0.78 U	ng/L	0.78	3.1

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 9:50	Effluent Grab	Pesticides	Mevinphos	1.1 U	ng/L	1.1	4.4
4/18/2022 9:50	Effluent Grab	Pesticides	Norflurazon	1.3 I	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Parathion Methyl	0.58 U	ng/L	0.58	2.3
4/18/2022 9:50	Effluent Grab	Pesticides	Prometon	0.94 U	ng/L	0.94	3.8
4/18/2022 9:50	Effluent Grab	Pesticides	Terbufos	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Pyridaben	0.47 U	ng/L	0.47	2.4
4/18/2022 9:50	Effluent Grab	Pesticides	Fipronil	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Iprodione	0.63 U	ng/L	0.63	2.5
4/18/2022 9:50	Effluent Grab	Pesticides	Myclobutanil	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Parathion Ethyl	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Pronamide	0.16 U	ng/L	0.16	0.63
4/18/2022 9:50	Effluent Grab	Pesticides	Propiconazole	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Simazine	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Chlorfenapyr	0.18 U	ng/L	0.18	0.73
4/18/2022 9:50	Effluent Grab	Pesticides	Phenytoin	3.7 U	ng/L	3.7	15
4/18/2022 9:50	Effluent Grab	Pesticides	Butylate	0.42 U	ng/L	0.42	1.7
4/18/2022 9:50	Effluent Grab	Pesticides	Ethion	0.16 U	ng/L	0.16	0.63
4/18/2022 9:50	Effluent Grab	Pesticides	Fipronil Sulfide	0.16 U	ng/L	0.16	0.63
4/18/2022 9:50	Effluent Grab	Pesticides	Fluxapyroxad	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Hexazinone	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Metolachlor	0.78 I	ng/L	0.37	1.5
4/18/2022 9:50	Effluent Grab	Pesticides	Metribuzin	2.6 U	ng/L	2.6	10
4/18/2022 9:50	Effluent Grab	Pesticides	Tebuconazole	0.57 I	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Loratadine	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Pyraflufen Ethyl	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Thiobencarb	0.63 U	ng/L	0.63	2.5
4/18/2022 9:50	Effluent Grab	Pesticides	Alachlor	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Ametryn	0.63 U	ng/L	0.63	2.5
4/18/2022 9:50	Effluent Grab	Pesticides	Atrazine	0.67 I	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Azoxystrobin	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.052 U	ng/L	0.052	0.21
4/18/2022 9:50	Effluent Grab	Pesticides	Fludioxonil	0.13 U	ng/L	0.13	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Caffeine	7.8 U	ng/L	7.8	31

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 9:50	Effluent Grab	Pesticides	Coumaphos	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Dimethomorph	0.18 U	ng/L	0.18	1.1
4/18/2022 9:50	Effluent Grab	Pesticides	Acetochlor	0.26 U	ng/L	0.26	1.0
4/18/2022 9:50	Effluent Grab	Pesticides	Azinphos Methyl	2.1 U	ng/L	2.1	8.4
4/18/2022 9:50	Effluent Grab	Pesticides	Cyanazine	3.4 U	ng/L	3.4	14
4/18/2022 9:50	Effluent Grab	Pesticides	Fenbuconazole	0.13 U	ng/L	0.13	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.13 U	ng/L	0.13	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Fipronil Sulfone	0.16 U	ng/L	0.16	0.63
4/18/2022 9:50	Effluent Grab	Pesticides	Oxadiazon	0.31 UQ	ng/L	0.31	1.2
4/18/2022 9:50	Effluent Grab	Pesticides	Oxyfluorfen	0.16 U	ng/L	0.16	0.63
4/18/2022 9:50	Effluent Grab	Pesticides	Prodiamine	0.18 U	ng/L	0.18	0.73
4/18/2022 9:50	Effluent Grab	Pesticides	Terbuthylazine	0.44 U	ng/L	0.44	1.8
4/18/2022 9:50	Effluent Grab	Pesticides	Napropamide	0.42 U	ng/L	0.42	1.7
4/18/2022 9:50	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Dithiopyr	0.18 U	ng/L	0.18	0.73
4/18/2022 9:50	Effluent Grab	Pesticides	Fenamiphos	0.52 U	ng/L	0.52	2.1
4/18/2022 9:50	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.42
4/18/2022 9:50	Effluent Grab	Pesticides	Flumioxazin	1.8 U	ng/L	1.8	7.3
4/18/2022 9:50	Effluent Grab	Pesticides	Molinate	0.31 U	ng/L	0.31	1.3
4/18/2022 9:50	Effluent Grab	Pesticides	Prometryn	0.21 U	ng/L	0.21	0.84
4/18/2022 9:50	Effluent Grab	Pesticides	Cyprodinil	0.10 U	ng/L	0.10	0.52
4/18/2022 9:50	Effluent Grab	Pesticides	Difenoconazole	0.63 U	ng/L	0.63	2.5
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	11 U	µg/L	11	43
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.3 U	µg/L	5.3	21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	µg/L	1.1	4.3
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.11 U	µg/L	0.11	0.43
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	11 U	µg/L	11	43

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.5
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.21 U	µg/L	0.21	0.85
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.53 U	µg/L	0.53	2.1
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Phenol	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.2 U	µg/L	3.2	13
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Pyrene	0.11 U	µg/L	0.11	0.43
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 U	µg/L	11	43
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	µg/L	2.1	8.5
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Anthracene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Chrysene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Fluorene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Isophorone	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Benzidine	11 U	µg/L	11	43
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.053 U	µg/L	0.053	0.21

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.5
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.027 U	µg/L	0.027	0.11
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.053 U	µg/L	0.053	0.21
4/18/2022 9:50	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.11 U	µg/L	0.11	0.43
4/18/2022 9:50	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	98.6	%Sat		
4/18/2022 9:50	Effluent Grab	Nutrients	pH	8.17			
4/18/2022 10:05	Effluent Grab	Nutrients	pH	8.17			
4/18/2022 10:05	Effluent Grab	Nutrients	Temperature	22.8	C		
4/18/2022 10:05	Effluent Grab	Nutrients	Specific Conductance	289.3	µmhos/cm		
4/18/2022 9:50	Effluent Grab	Nutrients	Temperature	22.8	C		
4/18/2022 10:05	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	98.6	%Sat		
4/18/2022 9:50	Effluent Grab	Nutrients	Specific Conductance	289.3	µmhos/cm		
4/18/2022 10:10	Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
4/18/2022 10:10	Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
4/18/2022 10:10	Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
4/18/2022 10:10	Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
4/18/2022 10:10	Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
4/18/2022 10:10	Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
4/18/2022 10:10	Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
4/18/2022 10:10	Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
4/18/2022 10:10	Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
4/18/2022 10:10	Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
4/18/2022 10:10	Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
4/18/2022 10:10	Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
4/18/2022 10:10	Blank	Metals	Iron	30 U	µg/L	30	120
4/18/2022 10:10	Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
4/18/2022 10:10	Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
4/18/2022 10:10	Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
4/18/2022 10:10	Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
4/18/2022 10:10	Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
4/18/2022 10:10	Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
4/18/2022 10:10	Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.10

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 10:10	Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
4/18/2022 10:10	Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
4/18/2022 10:10	Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
4/18/2022 10:10	Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
4/18/2022 10:10	Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
4/18/2022 10:10	Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
4/18/2022 10:10	Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
4/18/2022 10:10	Blank	Overflow	HEM	2.8 U	mg/L	2.8	8.0
4/18/2022 10:10	Blank	Pesticides	Chlorfenapyr	0.18 U	ng/L	0.18	0.74
4/18/2022 10:10	Blank	Pesticides	Pyraflufen Ethyl	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Chlorpyrifos Ethyl	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.53
4/18/2022 10:10	Blank	Pesticides	Ethion	0.16 U	ng/L	0.16	0.63
4/18/2022 10:10	Blank	Pesticides	Fipronil Sulfide	0.16 U	ng/L	0.16	0.63
4/18/2022 10:10	Blank	Pesticides	Simazine	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Caffeine	7.9 U	ng/L	7.9	32
4/18/2022 10:10	Blank	Pesticides	Atrazine Desethyl	1.6 U	ng/L	1.6	6.3
4/18/2022 10:10	Blank	Pesticides	Bromacil	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Fipronil Desulfinyl	0.13 U	ng/L	0.13	0.53
4/18/2022 10:10	Blank	Pesticides	Fluazifop-P-butyl	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Fludioxonil	0.13 U	ng/L	0.13	0.53
4/18/2022 10:10	Blank	Pesticides	Iprodione	0.63 U	ng/L	0.63	2.5
4/18/2022 10:10	Blank	Pesticides	Metolachlor	0.37 U	ng/L	0.37	1.5
4/18/2022 10:10	Blank	Pesticides	Myclobutanil	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Phorate	0.55 U	ng/L	0.55	2.2
4/18/2022 10:10	Blank	Pesticides	Prodiamine	0.18 U	ng/L	0.18	0.74
4/18/2022 10:10	Blank	Pesticides	Etridiazole	0.16 U	ng/L	0.16	0.63
4/18/2022 10:10	Blank	Pesticides	Napropamide	0.42 U	ng/L	0.42	1.7
4/18/2022 10:10	Blank	Pesticides	Phenytoin	3.7 U	ng/L	3.7	15
4/18/2022 10:10	Blank	Pesticides	Propanil	0.13 U	ng/L	0.13	0.53
4/18/2022 10:10	Blank	Pesticides	Triadimefon	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Alachlor	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Difenoconazole	0.63 U	ng/L	0.63	2.5
4/18/2022 10:10	Blank	Pesticides	Fipronil Sulfone	0.16 U	ng/L	0.16	0.63

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 10:10	Blank	Pesticides	Naled	1.6 U	ng/L	1.6	6.3
4/18/2022 10:10	Blank	Pesticides	Parathion Ethyl	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Stirophos	0.13 U	ng/L	0.13	0.53
4/18/2022 10:10	Blank	Pesticides	Ametryn	0.63 U	ng/L	0.63	2.5
4/18/2022 10:10	Blank	Pesticides	Chlorpyrifos Methyl	0.053 U	ng/L	0.053	0.21
4/18/2022 10:10	Blank	Pesticides	Cyanazine	3.4 U	ng/L	3.4	14
4/18/2022 10:10	Blank	Pesticides	Dimethenamid	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Dithiopyr	0.18 U	ng/L	0.18	0.74
4/18/2022 10:10	Blank	Pesticides	EPTC	1.3 U	ng/L	1.3	5.3
4/18/2022 10:10	Blank	Pesticides	Flumioxazin	1.8 U	ng/L	1.8	7.4
4/18/2022 10:10	Blank	Pesticides	Fonofos	0.21 U	ng/L	0.21	0.85
4/18/2022 10:10	Blank	Pesticides	Imazalil	0.79 U	ng/L	0.79	3.2
4/18/2022 10:10	Blank	Pesticides	Mevinphos	1.1 U	ng/L	1.1	4.4
4/18/2022 10:10	Blank	Pesticides	Molinate	0.32 U	ng/L	0.32	1.3
4/18/2022 10:10	Blank	Pesticides	Oxadiazon	0.31 UQ	ng/L	0.31	1.3
4/18/2022 10:10	Blank	Pesticides	Pronamide	0.16 U	ng/L	0.16	0.63
4/18/2022 10:10	Blank	Pesticides	Tebuconazole	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Terbufos	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Terbuthylazine	0.45 U	ng/L	0.45	1.8
4/18/2022 10:10	Blank	Pesticides	Cyprodinil	0.11 U	ng/L	0.11	0.53
4/18/2022 10:10	Blank	Pesticides	Demeton	1.6 U	ng/L	1.6	6.3
4/18/2022 10:10	Blank	Pesticides	Flutolanil	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Fluxapyroxad	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Metalaxyl	0.79 U	ng/L	0.79	3.2
4/18/2022 10:10	Blank	Pesticides	Oxyfluorfen	0.16 U	ng/L	0.16	0.63
4/18/2022 10:10	Blank	Pesticides	Prometon	0.95 U	ng/L	0.95	3.8
4/18/2022 10:10	Blank	Pesticides	Prometryn	0.21 U	ng/L	0.21	0.85
4/18/2022 10:10	Blank	Pesticides	Sulfentrazone	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Coumaphos	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Propargite	1.6 U	ng/L	1.6	6.3
4/18/2022 10:10	Blank	Pesticides	Azinphos Methyl	2.1 U	ng/L	2.1	8.5
4/18/2022 10:10	Blank	Pesticides	Azoxystrobin	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Fenamiphos	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Malathion	0.37 U	ng/L	0.37	1.5

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 10:10	Blank	Pesticides	Parathion Methyl	0.58 U	ng/L	0.58	2.3
4/18/2022 10:10	Blank	Pesticides	Loratadine	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Pyridaben	0.48 U	ng/L	0.48	2.4
4/18/2022 10:10	Blank	Pesticides	Ethoprop	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Fenbuconazole	0.13 U	ng/L	0.13	0.53
4/18/2022 10:10	Blank	Pesticides	Fipronil	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Metribuzin	2.6 U	ng/L	2.6	11
4/18/2022 10:10	Blank	Pesticides	Pendimethalin	1.1 U	ng/L	1.1	4.2
4/18/2022 10:10	Blank	Pesticides	Propiconazole	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Pyriproxyfen	0.13 U	ng/L	0.13	0.53
4/18/2022 10:10	Blank	Pesticides	Dimethomorph	0.18 U	ng/L	0.18	1.1
4/18/2022 10:10	Blank	Pesticides	Thiobencarb	0.63 U	ng/L	0.63	2.5
4/18/2022 10:10	Blank	Pesticides	Acetochlor	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Atrazine	0.26 U	ng/L	0.26	1.1
4/18/2022 10:10	Blank	Pesticides	Butylate	0.42 U	ng/L	0.42	1.7
4/18/2022 10:10	Blank	Pesticides	Carbophenothion	0.21 U	ng/L	0.21	0.85
4/18/2022 10:10	Blank	Pesticides	Carfentrazone Ethyl	0.11 U	ng/L	0.11	0.42
4/18/2022 10:10	Blank	Pesticides	Disulfoton	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Hexazinone	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Pesticides	Norflurazon	0.53 U	ng/L	0.53	2.1
4/18/2022 10:10	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	2-Nitrophenol	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Hexachloroethane	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Pyrene	0.11 U	µg/L	0.11	0.44
4/18/2022 10:10	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.2 U	µg/L	2.2	8.9
4/18/2022 10:10	Blank	Priority Organic Pollutants	Fluoranthene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Acenaphthene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.056 U	µg/L	0.056	0.22

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 10:10	Blank	Priority Organic Pollutants	Phenanthrene	0.11 U	µg/L	0.11	0.44
4/18/2022 10:10	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.3 U	µg/L	3.3	13
4/18/2022 10:10	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	11 U	µg/L	11	44
4/18/2022 10:10	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 U	µg/L	11	44
4/18/2022 10:10	Blank	Priority Organic Pollutants	4-Nitrophenol	11 U	µg/L	11	44
4/18/2022 10:10	Blank	Priority Organic Pollutants	Anthracene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Chrysene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	Diethyl phthalate	2.2 U	µg/L	2.2	8.9
4/18/2022 10:10	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	µg/L	1.1	4.4
4/18/2022 10:10	Blank	Priority Organic Pollutants	Pentachlorophenol	0.56 U	µg/L	0.56	2.2
4/18/2022 10:10	Blank	Priority Organic Pollutants	Phenol	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	2-Chlorophenol	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.028 U	µg/L	0.028	0.11
4/18/202210:10	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Isophorone	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Benzidine	11 U	µg/L	11	44
4/18/2022 10:10	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.2 U	µg/L	2.2	8.9
4/18/2022 10:10	Blank	Priority Organic Pollutants	Dimethyl phthalate	0.57 I	µg/L	0.22	0.89
4/18/2022 10:10	Blank	Priority Organic Pollutants	Fluorene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Naphthalene	0.11 U	µg/L	0.11	0.44
4/18/2022 10:10	Blank	Priority Organic Pollutants	Nitrobenzene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Acenaphthylene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.6 U	µg/L	5.6	22

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/18/2022 10:10	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.028 U	µg/L	0.028	0.11
4/18/2022 10:10	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.056 U	µg/L	0.056	0.22
4/18/2022 10:10	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.028 U	µg/L	0.028	0.11