# *Effluent Quality Assessment of Blacks Ford WRF St. Johns County NPDES # FL0174441 Sampled June 09 and June 11, 2025*

**Division of Environmental Assessment and Restoration**
**Florida Department of Environmental Protection**
**August 2025**

**DEP Laboratory, Biology Program**
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# Summary of Results

The specific conductance of the effluent exceeded the Class III Water Quality Criterion for Fresh Waters (Paragraph 62-302.530(22), F.A.C.). All other analytes measured in the effluent grab and composite samples complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits. The effluent was not toxic to the freshwater organisms tested in the chronic toxicity bioassay. The freshwater algal growth potential (AGP) and nutrient results suggest a potential for nutrient enrichment of the receiving waters. There were eighteen organic constituents detected in the effluent grab sample.

# Facility Overview

The Blacks Ford WRF Facility is a wastewater treatment facility. The permit can be found in the DEP OCULUS, Document Management System. To access the permit directly, use this link and click the "Public OCULUS Login" button in the center of the webpage. https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=38.1355930.1]&[profile=Permitting_Authorization] The facility is operating under Administrative Order AO 191 NE.

The effluent is continuously discharged into Blacks Ford Swamp, a Class III Fresh Water [waterbody identification (WBID) 2411] receiving wetlands (Figure 1). The Blacks Ford Swamp falls within the Stream Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). For this region, the NNC, expressed as annual geometric means, are 0.12 mg/L total phosphorus (TP) and 1.54 mg/L total nitrogen (TN) (Paragraph 62-302.531(2)(c), F.A.C.). The Blacks Ford Swamp falls within the Peninsular bioregion; the daily average 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 abbreviated fifth year inspection (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 and 24-hour time-proportioned composite samples were collected from monitoring site location EFF-1, for outfall D-001 on June 9, 2025. Effluent renewal composite samples were collected on June 11, 2025, and June 13, 2025. Equipment blanks were collected on June 05, 2025. The permit specifies flow-proportioned composite samples and time-proportioned composite samples were collected. Due to issues with the auto-sampler, the toxicology and carbonaceous biochemical oxygen demand (CBOD) samples were the only composite samples collected during the June 9 sampling event; the rest of the composite samples were collected during the June 11 sampling event.

Samples were collected by Conor Lucey, Tatianna Floyd, Shannon Taylor, Yahya Farah, and Connor Parker (Northeast District). Analyses were performed by Eurofins Environmental

Testing Laboratories in Orlando, Jacksonville, and Pensacola; 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 A.

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.

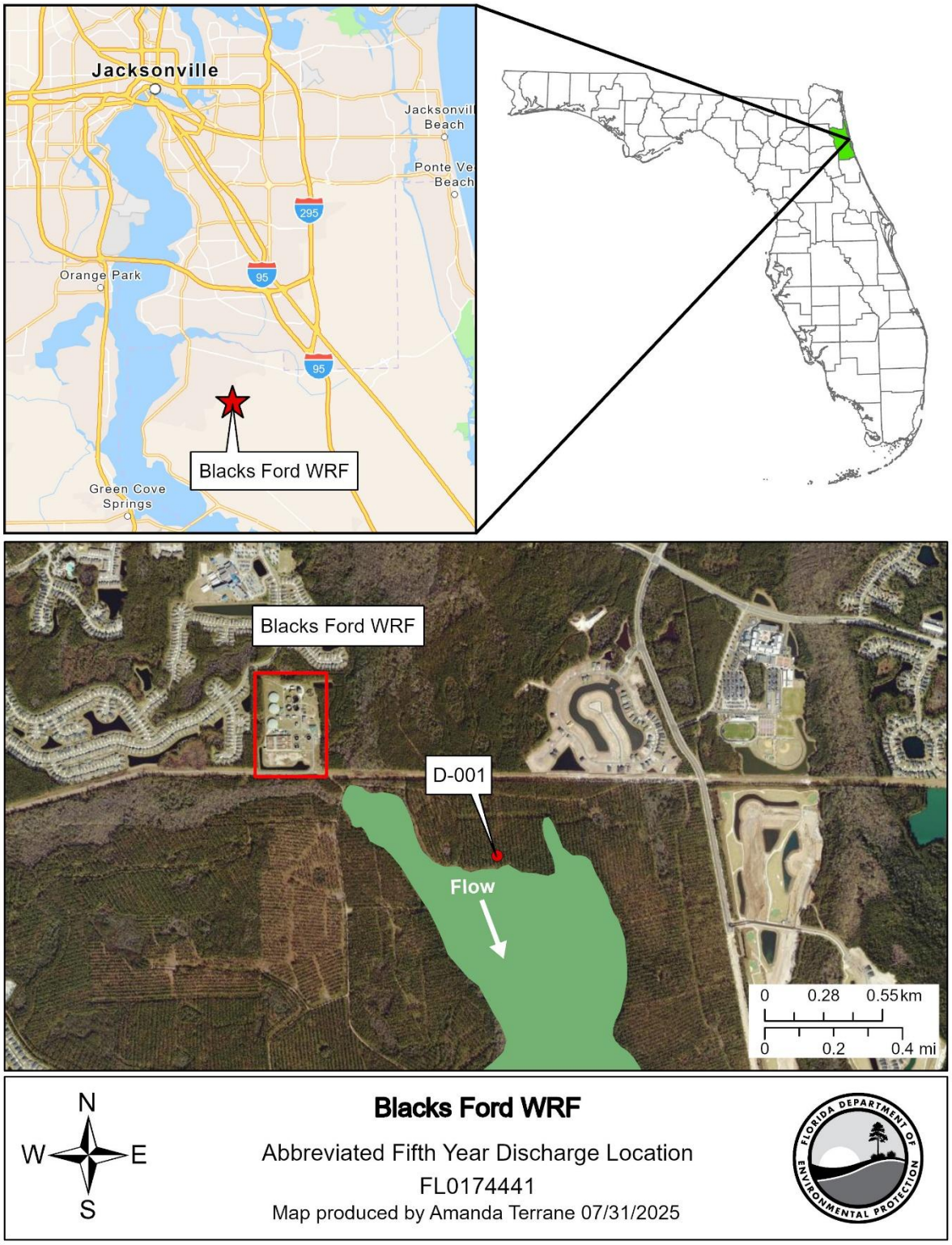



**Figure 1. Map of Facility and Discharge Location**

# Results

## Physical and Chemical Parameters (See Table 1 and Appendices A, B, and C)

- Specific conductance of the effluent exceeded the Class III Water Quality Criterion for Fresh Waters (Subsection 62-302.530(22), F.A.C.).

## Analytical Water Chemistry (See Table 2 and Appendices A and C)

- 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.

- Total phosphate was detected in the equipment blank.

## Microbiology (See Table 2 and Appendices A and C)

- Effluent *Escherichia coli* (*E. coli*) and fecal coliform levels complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

## Toxicity Whole Effluent Test (See Table 2 and Appendices A and C)

- Tests were performed June 10 through June 17, 2025.

- The sample was aerated for 5 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 9.7 mg/L to 8.6 mg/L.

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

- For the chronic definitive bioassay, the calculated IC25 for the water flea, *Ceriodaphnia dubia*, and the calculated IC25 for the fish, *Pimephales promelas*, were greater than 100% effluent, 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 Appendices A and C)

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

## Algal Growth Potential (See Table 4 and Appendices A and C)

- The effluent AGP result was 14.83 mg dry wt/L of the freshwater unicellular green alga, *Raphidocelis subcapitata*. The effluent AGP result is within the AGP range

(6.10 to 20.0 mg dry wt/L) suggested to be representative of high productivity for freshwater (Miller et al. 1978).

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

- Comparing the measured and predicted AGP results, an inference can be made that not all the nutrients in the effluent were bio-available to the test species. To determine actual nutrient limitation, a limiting-nutrient algal growth potential test would need to be performed. Another possible explanation is the presence of toxicants can inhibit or prevent algal growth even when nutrients are not growth-limiting (Miller et al. 1978).

- Differences greater than an order of magnitude between actual and predicted AGP values are considered sufficient evidence to warrant follow up testing with the algal growth inhibition bioassay. True algal growth inhibition can only be determined by performing an actual algal growth inhibition test. Should algal growth inhibition be suspected, the district should request that the algal growth inhibition test be performed as a follow-up to the inspection.

- This data provides evidence of nutrient enrichment in this portion of the Blacks Ford Swamp.

## Organic Constituents (See Table 5 and Appendices A and C)

- Atrazine (herbicide), azoxystrobin (fungicide), caffeine (stimulant), chlorfenapyr (insecticide), fipronil (insecticide), fipronil desulfinyl (insecticide), fipronil sulfide (insecticide), fipronil sulfone (insecticide), fludioxonil (fungicide), flutolanil (fungicide), fluxapyroxad (fungicide), loratadine (antihistamine), metolachlor (herbicide), prodiamine (herbicide), propiconazole (fungicide), simazine (herbicide), sulfentrazone (herbicide), and tebuconazole (fungicide) were detected in the effluent grab sample.

- There are no effluent permit limits for organic constituents.

# Literature Cited

Miller, W. E., Greene, J. C., and Shiroyama, T. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA600/9-78-018. U. S. EPA, Corvallis, Oregon. 126 p.

Raschke, R.L. and Schultz, D.A. 1987. The use of the algal growth potential test for data assessment. Journal Water Pollution Control Federation.

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. 1971. Algal Assay Procedure: Bottle Test. EPA950R71094 U. S. EPA, Corvallis, Oregon, 82 p.

USEPA. 1974. Marine Algal Assay Procedure: Bottle Test. EPA660375008 U. S. EPA, Corvallis, Oregon. 43 p.

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 | EFF-1 |
|---|---|---|---|---|
| Temperature | C | - | - | 29.4 |
| pH | SU | 6.0 - 8.5 | 6.0 - 8.5 | 7.1 |
| Specific Conductance | µmhos/cm | ≤ 1,275 | - | 1,579 e |
| Salinity | ppt | - | - | 0.7 c |
| Dissolved Oxygen | % saturation | ≥ 38 | - | 88.6 |

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated.
e - Value exceeds the Class III Water Quality Criteria.

## 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 Composite | Effluent Grab |
|---|---|---|---|---|---|
| Ortho-phosphate | mg P/L | - | - | - | 1.6 |
| Total Phosphorus[1] | mg P/L | ≤ 0.12 g | ≤ 2.0 sp | 0.67 | 1.7 |
| Total Ammonia Nitrogen | mg N/L | ≤ 2.47 sc | Report | - | 0.13 |
| Un-ionized Ammonia (calculated salinity) | mg N/L | - | - | - | < 0.02 c |
| Nitrate and Nitrite | mg N/L | - | - | 2.5 | 3.1 |
| Total Kjeldahl Nitrogen | mg N/L | - | - | 0.88 | 0.93 |
| Organic Nitrogen | mg N/L | - | - | - | 0.8 c |
| Total Nitrogen | mg N/L | ≤ 1.54g | ≤ 6.0 sp | 3.4 c | 4 c |
| Total Organic Carbon | mg C/L | - | - | - | 6.0 |
| Chlorophyll *a* - Corrected | µg/L | - | - | - | 1.0 U |
| Phaeophytin | µg/L | - | - | - | 1.3 U |
| CBOD, 5 day, N - inhibited | mg/L | - | ≤ 10 sp | 2.0 U | 2.0 U |
| Total Suspended Solids | mg/L | - | ≤ 10 sp | 3 I | 2 I |
| Turbidity | NTU | ≤ 29 t | - | - | 0.55 I |
| Color (true) | PCU | - | - | - | 23 |
| Alkalinity | mg CaCO3/L | ≥ 20 | - | - | 125 A |
| Chloride | mg Cl/L | - | - | - | 260 |
| Fluoride | mg F/L | ≤ 10.0 | - | - | 0.50 |
| Sulfate | mg SO4/L | - | - | - | 190 |
| Fecal Coliform | MPN/100 mL | - | ≤ 800 s | - | 1.00 U |
| *Escherichia coli* | MPN/100 mL | ≤ 410s | ≤ 410 | - | 1.00 U |
| Bioassay - Water flea *(Ceriodaphnia dubia)* | % effluent | ≥ 100 | ≥ 100 sp | > 100 | - |
| Bioassay - Fish *(Pimephales promelas)* | % effluent | ≥ 100 | ≥ 100 sp | > 100 | - |

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated.
g - Value expressed as an 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.
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 - Analyte detected in the equipment blank.

## 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 | - | - | 270 c |
| Aluminum | µg/L | - | - | 70 |
| Arsenic | µg/L | ≤ 50 | - | 0.11 I |
| Cadmium | µg/L | ≤ 0.565 b | - | 0.020 U |
| Calcium | mg/L | - | - | 59.1 |
| Chromium, Total [2] | µg/L | ≤ 195 b | - | 0.40 U |
| Copper | µg/L | ≤ 21.8 b | - | 0.40 U |
| Iron | µg/L | ≤ 1,000 | - | 30 U |
| Lead | µg/L | ≤ 11.3 b | - | 0.20 U |
| Magnesium | mg/L | - | - | 29.8 |
| Mercury | ng/L | ≤ 12 | ≤ 12 s | 0.20 U |
| Nickel | µg/L | ≤ 121 b | - | 0.63 I |
| Potassium | mg/L | - | - | 15.0 |
| Selenium | µg/L | ≤ 5.0 | - | 0.20 U |
| Silver | µg/L | ≤ 0.07 | - | 0.010 U |
| Sodium | mg/L | - | - | 180 |
| Zinc | µg/L | ≤ 278 b | - | 21 |

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
b - Value is calculated based on hardness.
c - Value is calculated.
s - Single sample
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material analyzed for but not detected; value reported is the method detection limit.
2 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III.

## Table 4. 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 | *Raphidocelis subcapitata* | 14.83 A | 120 ± 25 | 690 ± 140 | 150 ± 31 | 730 ± 150 | 2.0 | 2.4 |

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

## Table 5. Detected Organic Constituents

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

| Analyte | Units | Class III Criteria | Effluent Permit Limits | Effluent Grab |
|---|---|---|---|---|
| Atrazine | ng/L | - | - | 23 |
| Azoxystrobin | ng/L | - | - | 3.1 J |
| Caffeine | ng/L | - | - | 64 |
| Chlorfenapyr | ng/L | - | - | 1.1 I |
| Fipronil | ng/L | - | - | 5.1 |
| Fipronil Desulfinyl | ng/L | - | - | 6.7 |
| Fipronil Sulfide | ng/L | - | - | 1.9 |
| Fipronil Sulfone | ng/L | - | - | 1.4 |
| Fludioxonil | ng/L | - | - | 3.1 |
| Flutolanil | ng/L | - | - | 0.87 |
| Fluxapyroxad | ng/L | - | - | 0.58 I |
| Loratadine | ng/L | - | - | 0.92 I |
| Metolachlor | ng/L | - | - | 5.9 |
| Prodiamine | ng/L | - | - | 0.98 I |
| Propiconazole | ng/L | - | - | 2.9 I |
| Simazine | ng/L | - | - | 5.2 |
| Sulfentrazone | ng/L | - | - | 1.6 I |
| Tebuconazole | ng/L | - | - | 7.4 |

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.
J - Estimated value and/or the analysis did not meet established quality control criteria.

# Appendix A. 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.

- **Chlorophyll a Content**

  Chlorophyll a content is an estimate of algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and 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.

- **Bacteriological Testing**

  High levels of fecal indicator bacteria may constitute an exceedance of Subsection 62-302.530(6) and/or facility permit limits. *Escherichia coli* results are based on Most Probable Number (MPN) and shall not exceed 410 in 10% or more of the samples during any 30-day period (62-302.530(6)(b), F.A.C.). *Enterococci* results are based on Most Probable Number (MPN) and shall not exceed 130 in 10% or more of the samples during any 30-day period (62-302.530(6)(c), F.A.C.). If fewer than 10 samples are taken within a month for a given location, the Ten Percent Threshold Value (TPTV) is assessed as a single sample maximum. The results for fecal coliform by membrane filtration method are often 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 (CFU) per plate. The B-qualifier does not affect data quality.

- **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.

- **Algal Growth Potential (AGP)**

Algal growth potential (AGP) is a measure of nutrients available for algal growth (Miller et al. 1978; USEPA 1974). The AGP value is the peak growth of the alga within that 14-day period, recorded as mg dry weight/L. AGP. The protocol for marine waters (USEPA 1974) refers to the original 1971 Bottle Test procedure (USEPA 1971) for analysis interpretation. The 1971 Bottle Test was updated in 1978 (Miller et al. 1978). 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). AGP values above 10.0 mg dry weight/L represent a "problem" threshold for marine receiving waters, implying nutrient enrichment (Raschke and Schultz 1987, personal communication). 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.. If a nutrient value is non-detect, predicted AGP and N:P ratio is calculated using ½ the method detection limit (MDL) for the non-detect value.

- **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 and/or the analysis did not meet established quality control criteria.
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 B. Chain of Custody

**Request Number: RQ-2025-05-26-29**

FYI3 Blacks Ford WRF (FL0174441) NED

**Customer: NE-DIST**

**Project ID: FYI3**

**Florida Department of Environmental Protection**

**Central Laboratory Submittal Form**

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last revised Jan 25, 2018

Requester: Benjamin Nomann

Collected By: Conor Lucas

Field Report Prepared By: Conor Lucas

Sampling Agency: FDEP NED

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location: Blacksford WRF (FL0174441) Equipment Blanks | ☐ Comp ☐ Grab | Collection (comp begin or grab) Date 6/05/2025 Time 10:50 | Eastern / Central | Composite end Date | Time | Bottle Group(s) (See pg 2): D | | | | |
| Field ID: | Matrix (type, e.g., Salt, Fresh, etc): DI Water | | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | | | |
| WIN/STORET #: 30.07815401 x -81.58594413 | Temp (C) | pH | Sample Depth | ☐ ft ☐ m | Sp. Conductance (umho/cm) | | | | | |
| Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments: grabbed in Field | | | | | | | |
| 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 |
|---|---|---|---|---|---|
| Conor Lucas | 6/5/2025 12:00 | FedEX | 1 | BD | 06/06/2025 8:45 |

**Request Number: RQ-2025-05-26-29**

FYI3 Blacks Ford WRF (FL0174441) NED

**Customer: NE-DIST**

**Project ID: FYI3**

**Florida Department of Environmental Protection**

**Central Laboratory Submittal Form**



last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Conor Wray

Collected By: Conor Wray, Tahnnah Rough, Shannon Taylor

Sampling Agency: FDEP NED

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Location: Blacksford WRF
Field ID: EFF-1
Effluent Grab
WIN/STORET #: 30.07815401 x -81.58594413

☐ Comp ☐ Grab | Collection (comp begin or grab) Date 6-9-25 Time 10:35 | Eastern / Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): Wastewater | Diss. Oxygen 6.77 / 88.6 ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) UV

Temp (C) 29.3 | pH 7.11 | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm) 1579

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments: no Chlorine UV samples grabbed outside lab

---

Location: Blacksford WRF (FL0174441)
Field ID: EFF-1
Effluent Composite
WIN/STORET #: 30.07815401 x -81.58594413

☑ Comp ☐ Grab | Collection (comp begin or grab) Date 6-8-25 Time 1030 | Eastern / Central | Composite end Date 6-9-25 Time 1030 | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Waste water | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments: Forecast 11:15 issues with auto sampler Bottles Content Fill all

---

Location: Blacksford WRF
Field ID: Field Blanks
WIN/STORET #: 30.07815401 x -81.58594413

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 6/9/25 Time 11:00 | Eastern / Central | Composite end Date Time | Bottle Group(s): C

Matrix (type, e.g., Salt, Fresh, etc): DI | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

---

Location | Field ID | WIN/STORET #

☐ 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)

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

---

| Relinquished By: | Date/Time | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time |
|---|---|---|---|---|---|
| Conor Wray | 6/9/25 12:30 | FedEx | 3 | Amzad Shaik | 06/10/2025 /08:44 |

**Request Number: RQ-2025-05-26-29**

FYI3 Blacks Ford WRF (FL0174441) NED

**Customer: NE-DIST**

**Project ID: FYI3**

## Florida Department of Environmental Protection
## Central Laboratory Submittal Form



last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Connor Parker

Collected By: Connor Parker, Yahya Farah, Conner Lucy

Sampling Agency: FDEP NED

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Location<br>Blacksford WRF<br>EFF-1<br>Effluent Comp<br>30.07815401 x -81.58594413 | ☒ Comp ☐ Grab | Collection (comp begin or grab) Date 6/10/2025 Time 10:30 | Eastern Central | Composite end Date 6/11/2025 Time 10:30 | Bottle Group(s) (See pg 2) B | | |
| | Matrix (type, e.g., Salt, Fresh, etc) Wastewater | | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | |
| | Temp (C) | pH | Sample Depth | ☐ ft ☐ m | Sp. Conductance (umho/cm) | | |
| ☐ 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 |
|---|---|---|---|---|---|
| Connor Parker | 6/11/2025 11:30 | Fed Ex | 1 | [illegible] | 06/12/2025 8:44 |

**Request Number: RQ-2025-05-26-29**

FYI3 Blacks Ford WRF (FL0174441) NED

**Customer: NE-DIST**

**Project ID: FYI3**

## Florida Department of Environmental Protection
## Central Laboratory Submittal Form



last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Yahya Farah

Collected By: Connor Foster, Conor Lucey, Yahya Farah

Sampling Agency: FDEP NED

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location: Blacksford WRF<br>Field ID: EFF-1<br>WIN/STORET #: Effluent Comp<br>Latitude: 30.07815401 Longitude: -81.58594413 | ☑ Comp<br>☐ Grab | Collection (comp begin or grab)<br>Date 6/12/2025 Time 10:00AM | Eastern<br>Central | Composite end<br>Date 6/13/2025 Time 10:00AM | Bottle Group(s) (See pg 2)<br>B | | | | | |
| | Matrix (type, e.g., Salt, Fresh, etc)<br>Wastewater | | Diss. Oxygen | ☐ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | | |
| | Temp (C) | pH | Sample Depth | ☐ ft<br>☐ m | Sp. Conductance (umho/cm) | | | | | |
| Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments: Poured at 10:00AM | | | | | | | |
| Location | ☐ Comp<br>☐ Grab | Collection (comp begin or grab)<br>Date Time | Eastern<br>Central | Composite end<br>Date Time | Bottle Group(s) | | | | | |
| Field ID | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | | |
| WIN/STORET # | Temp (C) | pH | Sample Depth | ☐ ft<br>☐ m | Sp. Conductance (umho/cm) | | | | | |
| Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | | | |
| Location | ☐ Comp<br>☐ Grab | Collection (comp begin or grab)<br>Date Time | Eastern<br>Central | Composite end<br>Date Time | Bottle Group(s) | | | | | |
| Field ID | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | | |
| WIN/STORET # | Temp (C) | pH | Sample Depth | ☐ ft<br>☐ m | Sp. Conductance (umho/cm) | | | | | |
| Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | | | |
| Location | ☐ Comp<br>☐ Grab | Collection (comp begin or grab)<br>Date Time | Eastern<br>Central | Composite end<br>Date Time | Bottle Group(s) | | | | | |
| Field ID | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | | |
| WIN/STORET # | Temp (C) | pH | Sample Depth | ☐ ft<br>☐ 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 |
|---|---|---|---|---|---|
| | 6/13/2025 | FEDEX | 1 | | 6-16-25 9:08 |

**Eurofins Jacksonville**
8021-6 Philips Highway
Jacksonville, FL 32256
Phone (904) 296-3007 Phone (904) 296-6210

## Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Conor Lacy | Lab PM: Savoie, Noel | Carrier Tracking No(s): | COC No: 762-4973-783.1 |
|---|---|---|---|---|
| Client Contact: Sarah Menz | Phone: 850-245-8857 | E-Mail: Noel.Savoie@et.eurofinsus.com | State of Origin: | Page: Page 1 of 1 |
| Company: DEP - Bureau of Labs Biology Section | PWSID: | Analysis Requested | | Job #: |
| Address: Twin Towers Lab Complex A Rm 216 6515 2600 Blairstone Rd M | Due Date Requested: | | | Preservation Codes: R - NaThioSO4 |
| City: Tallahassee | TAT Requested (days): | | | |
| State, Zip: FL, 32399 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: C402CA | | | Other: |
| Email: DEP-overflowmicro@floridadep.gov | WO #: | | | |
| Project Name: Blacksford WRF | Project #: 76200778 | | | |
| Site: Eff-1 | SSOW#: | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | IDEXX_ColQT_24H - Fecal Coliform | IDEX_Ent_8H_QT - Enterococci | 9223B_ClQ18_8H - E.Coli | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | R | R | R | | |
| Blackford Bract | 6/19/25 | 10.35 | G | Water | | | X | X | | | RQ-2024-2025-25-26-29 |

762-6879 Chain of Custody

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished by: Conor Lacy | Date/Time: 6/19/2025 12:05 | Company FDEP | Received by: | Date/Time: 6/19/2025 12:05 | Company FDEP ET WAW |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.9°C on Ice T-096 |
|---|---|---|

Ver: 04/02/2024

**Eurofins Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

## Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: Savoie, Noel | Carrier Tracking No(s): N/A | COC No: 400-378189.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Noel.Savoie@et.eurofinsus.com | State of Origin: Florida | Page: Page 1 of 1 |
| Company: Eurofins Environment Testing Southeast L | | Accreditations Required (See note): NELAP - Florida | | Job #: 400-277529-1 |
| Address: 481 Newburyport Avenue, | Due Date Requested: 6/25/2025 | | | Preservation Codes: |
| City: Altamonte Springs<br>State, Zip: FL, 32701 | TAT Requested (days): N/A | | | |
| Phone: 407-339-5984(Tel) 407-260-6110(Fax) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: OV687 | Project #: 40014026 | | | |
| Site: N/A | SSOW#: N/A | | | Other: N/A |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | SM4500_S2_F/ Sulfide | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | |
| 2567360 (400-277529-2) | 6/9/25 | 10:35 Eastern | G | Water | | | X | 1 | |
| 2567362 (400-277529-4) | 6/9/25 | 11:00 Eastern | G | Water | | | X | 1 | |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: | | |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: 6/16/25 1120 | Company | Received by: | Date/Time: 6/17/25 10:10 | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.9/2.7 |
|---|---|---|

Ver: 10/10/2024

# Appendix C. Chemical Analysis of Effluent

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 10:30 | Effluent Composite | Overflow | Carbonaceous Biochemical Oxygen Demand | 2.0 U | mg/L | 2.0 | 2.0 |
| 6/9/2025 10:30 | Effluent Composite | Toxicology | Bioassay-Chron-Def-FW-C.dubia, NOEC | 100 | NOEC | | |
| 6/9/2025 10:30 | Effluent Composite | Toxicology | Bioassay-Chron-Def-FW-C.dubia, IC25 | 100 L | IC25 | | |
| 6/9/2025 10:30 | Effluent Composite | Toxicology | Bioassay-Chron-Def-FW-Fish, NOEC | 100 | NOEC | | |
| 6/9/2025 10:30 | Effluent Composite | Toxicology | Bioassay-Chron-Def-FW-Fish, IC25 | 100 L | IC25 | | |
| 6/11/2025 10:30 | Effluent Composite | Nutrients | TSS | 3 I | mg/L | 2.0 | 10 |
| 6/11/2025 10:30 | Effluent Composite | Nutrients | NO2NO3-N | 2.5 | mg N/L | 0.040 | 0.10 |
| 6/11/2025 10:30 | Effluent Composite | Nutrients | Total-P | 0.67 | mg P/L | 0.010 | 0.050 |
| 6/11/2025 10:30 | Effluent Composite | Nutrients | Kjeldahl Nitrogen | 0.88 | mg N/L | 0.080 | 0.20 |
| 6/9/2025 10:35 | Effluent Grab | AGP/LN | Algal Growth Potential | 14.83 A | mg DryWt/L | 0.300 | 0.900 |
| 6/9/2025 10:35 | Effluent Grab | Chlorophyll/Grain Size/BOD | Chlorophyll-a, Uncorrected | 0.61 U | µg/L | 0.61 | 1.8 |
| 6/9/2025 10:35 | Effluent Grab | Chlorophyll/Grain Size/BOD | Chlorophyll-a, Corrected | 1.0 U | µg/L | 1.0 | 3.1 |
| 6/9/2025 10:35 | Effluent Grab | Chlorophyll/Grain Size/BOD | Phaeophytin-a | 1.3 U | µg/L | 1.3 | 3.8 |
| 6/9/2025 10:35 | Effluent Grab | Overflow | Carbonaceous Biochemical Oxygen Demand | 2.0 U | mg/L | 2.0 | 2.0 |
| 6/9/2025 10:35 | Effluent Grab | Overflow | Fecal Coliform-Quanti-Tray | 1.00 U | MPN/100 mL | 1.00 | 1.00 |
| 6/9/2025 10:35 | Effluent Grab | Overflow | Escherichia Coli-Quanti-Tray | 1.00 U | MPN/100 mL | 1.00 | 1.00 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Potassium | 15.0 | mg/L | 0.30 | 1.2 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Copper | 0.40 U | µg/L | 0.40 | 0.80 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Sodium | 180 | mg/L | 0.50 | 2.0 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Arsenic | 0.11 I | µg/L | 0.050 | 0.20 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Selenium | 0.20 U | µg/L | 0.20 | 0.80 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Magnesium | 29.8 | mg/L | 0.040 | 0.16 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Iron | 30 U | µg/L | 30 | 120 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Silver | 0.010 U | µg/L | 0.010 | 0.040 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Aluminum | 70 | µg/L | 5.0 | 20 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Cadmium | 0.020 U | µg/L | 0.020 | 0.080 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Nickel | 0.63 I | µg/L | 0.50 | 2.0 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Lead | 0.20 U | µg/L | 0.20 | 0.40 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Chromium | 0.40 U | µg/L | 0.40 | 1.6 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Zinc | 21 | µg/L | 5.0 | 20 |
| 6/9/2025 10:35 | Effluent Grab | Metals | Calcium | 59.1 | mg/L | 0.075 | 0.30 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 10:35 | Effluent Grab | Nutrients | NO2NO3-N | 3.1 | mg N/L | 0.040 | 0.10 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Organic Carbon | 6.0 | mg C/L | 0.50 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Turbidity | 0.55 I | NTU | 0.10 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Ammonia-N | 0.13 | mg N/L | 0.0020 | 0.0050 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Fluoride | 0.50 | mg F/L | 0.025 | 0.10 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Color (true) | 23 | PCU | 2.5 | 6.0 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Total-P | 1.7 | mg P/L | 0.050 | 0.25 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Chloride | 260 | mg Cl/L | 2.0 | 5.0 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Total Alkalinity | 125 A | mg CaCO3/L | 0.65 | 2.5 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Sulfate | 190 | mg SO4/L | 2.0 | 5.0 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | O-Phosphate-P | 1.6 | mg P/L | 0.080 | 0.20 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | TSS | 2 I | mg/L | 2.0 | 10 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Kjeldahl Nitrogen | 0.93 | mg N/L | 0.080 | 0.20 |
| 6/9/2025 10:35 | Effluent Grab | Overflow | Sulfide | 1.0 UQ | mg/L | 1.0 | 2.0 |
| 6/9/2025 10:35 | Effluent Grab | Overflow | Mercury | 0.20 U | ng/L | 0.20 | 0.50 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | EPTC | 0.51 U | ng/L | 0.51 | 2.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Dimethomorph | 0.67 U | ng/L | 0.67 | 3.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fludioxonil | 3.1 | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Mevinphos | 1.0 U | ng/L | 1.0 | 5.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Oxadiazon | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Oxyfluorfen | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Caffeine | 64 | ng/L | 7.7 | 39 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Carbophenothion | 0.51 U | ng/L | 0.51 | 2.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Dimethenamid | 0.10 U | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Pyraflufen Ethyl | 0.31 U | ng/L | 0.31 | 1.5 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Thiobencarb | 0.51 U | ng/L | 0.51 | 2.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Naproxen | 0.011 I | µg/L | 0.0080 | 0.032 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Dithiopyr | 2.1 U | ng/L | 2.1 | 10 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Ethion | 0.31 UJ | ng/L | 0.31 | 1.5 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Flumioxazin | 3.1 U | ng/L | 3.1 | 15 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fonofos | 0.15 U | ng/L | 0.15 | 0.77 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Loratadine | 0.92 I | ng/L | 0.31 | 1.5 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Metribuzin | 0.41 U | ng/L | 0.41 | 2.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Molinate | 0.26 U | ng/L | 0.26 | 1.3 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Naled | 2.6 U | ng/L | 2.6 | 13 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Norflurazon | 1.0 U | ng/L | 1.0 | 5.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Bromacil | 0.62 U | ng/L | 0.62 | 3.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Coumaphos | 1.1 U | ng/L | 1.1 | 5.7 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Cyprodinil | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Pronamide | 0.10 U | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Propargite | 0.82 U | ng/L | 0.82 | 4.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Tebuconazole | 7.4 | ng/L | 1.4 | 7.2 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Triadimefon | 0.15 U | ng/L | 0.15 | 0.77 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Ethoprop | 0.13 U | ng/L | 0.13 | 0.64 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fenamiphos | 0.46 U | ng/L | 0.46 | 2.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fluazifop-P-butyl | 0.10 U | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Hexazinone | 0.51 U | ng/L | 0.51 | 2.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Imazalil | 0.67 U | ng/L | 0.67 | 3.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Iprodione | 0.51 U | ng/L | 0.51 | 2.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Myclobutanil | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Parathion Ethyl | 0.15 U | ng/L | 0.15 | 0.77 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Carfentrazone Ethyl | 0.15 U | ng/L | 0.15 | 0.77 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Prometon | 3.1 U | ng/L | 3.1 | 15 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Pyridaben | 1.4 U | ng/L | 1.4 | 7.2 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fipronil Sulfone | 1.4 | ng/L | 0.26 | 1.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Alachlor | 0.41 U | ng/L | 0.41 | 2.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Atrazine Desethyl | 1.3 U | ng/L | 1.3 | 6.7 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Azoxystrobin | 3.1 J | ng/L | 0.41 | 2.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Pyriproxyfen | 0.26 U | ng/L | 0.26 | 1.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Terbufos | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Disulfoton | 0.62 U | ng/L | 0.62 | 3.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Flutolanil | 0.87 | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Metalaxyl | 0.51 U | ng/L | 0.51 | 2.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Chlorfenapyr | 1.1 I | ng/L | 0.31 | 1.5 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Phorate | 0.26 U | ng/L | 0.26 | 1.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Propiconazole | 2.9 I | ng/L | 0.62 | 3.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Stirophos | 0.41 UJ | ng/L | 0.41 | 3.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Sulfentrazone | 1.6 I | ng/L | 1.4 | 7.2 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Sucralose | 94 | µg/L | 0.10 | 0.40 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Etridiazole | 0.10 U | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fenbuconazole | 0.51 U | ng/L | 0.51 | 2.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fipronil Desulfinyl | 6.7 | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fluxapyroxad | 0.58 I | ng/L | 0.26 | 1.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Malathion | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Acetochlor | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Ametryn | 1.1 U | ng/L | 1.1 | 5.7 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Azinphos Methyl | 3.1 U | ng/L | 3.1 | 15 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Butylate | 0.46 U | ng/L | 0.46 | 2.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Demeton | 3.6 U | ng/L | 3.6 | 18 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Phenytoin | 5.5 U | ng/L | 5.5 | 27 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Prodiamine | 0.98 I | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Simazine | 5.2 | ng/L | 0.26 | 1.3 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fipronil | 5.1 | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Atrazine | 23 | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Chlorpyrifos Ethyl | 0.31 U | ng/L | 0.31 | 1.5 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Cyanazine | 5.1 U | ng/L | 5.1 | 26 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Diazinon | 0.13 U | ng/L | 0.13 | 0.64 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Prometryn | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Propanil | 0.10 U | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Ibuprofen | 0.080 U | µg/L | 0.080 | 0.32 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Fipronil Sulfide | 1.9 | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Metolachlor | 5.9 | ng/L | 0.77 | 3.9 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Napropamide | 0.72 U | ng/L | 0.72 | 3.6 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Chlorpyrifos Methyl | 0.10 U | ng/L | 0.10 | 0.51 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Difenoconazole | 0.62 U | ng/L | 0.62 | 3.1 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Parathion Methyl | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Pendimethalin | 1.7 U | ng/L | 1.7 | 8.7 |
| 6/9/2025 10:35 | Effluent Grab | Pesticides | Terbuthylazine | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 4-Bromophenyl phenyl ether | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2-Chloronaphthalene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Di-n-butyl phthalate | 3.1 U | µg/L | 3.1 | 12 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Di-n-octyl phthalate | 1.0 U | µg/L | 1.0 | 4.1 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Phenol | 0.21 U | µg/L | 0.21 | 0.82 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 1,2,4-Trichlorobenzene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2-Methyl-4,6-dinitrophenol | 3.1 UJ | µg/L | 3.1 | 12 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2-Nitrophenol | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2,4-Dinitrophenol | 10 U | µg/L | 10 | 41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2,4,6-Trichlorophenol | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Benzo(a)anthracene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Hexachlorobenzene | 0.062 U | µg/L | 0.062 | 0.25 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Hexachloroethane | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Isophorone | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Naphthalene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 4-Chloro-3-methylphenol | 0.31 U | µg/L | 0.31 | 1.2 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 4-Nitrophenol | 5.1 U | µg/L | 5.1 | 21 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Anthracene | 0.062 U | µg/L | 0.062 | 0.25 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Bis(2-chloroethoxy)methane | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Dibenzo(a,h)anthracene | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Diethyl phthalate | 1.5 U | µg/L | 1.5 | 6.2 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Fluoranthene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Hexachlorobutadiene | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Indeno(1,2,3-cd)pyrene | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Pyrene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 3,3'-Dichlorobenzidine | 4.1 U | µg/L | 4.1 | 16 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Acenaphthene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Benzo(a)pyrene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Bis(2-chloroethyl)ether | 0.21 UJ | µg/L | 0.21 | 0.82 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Bis(2-chloroisopropyl)ether | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Bis(2-ethylhexyl)phthalate | 2.1 U | µg/L | 2.1 | 8.2 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Dimethyl phthalate | 0.31 U | µg/L | 0.31 | 1.2 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | N-Nitrosodi-n-propylamine | 0.12 U | µg/L | 0.12 | 0.49 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | N-Nitrosodimethylamine | 2.6 U | µg/L | 2.6 | 10 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2,4-Dimethylphenol | 4.1 U | µg/L | 4.1 | 16 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2,6-Dinitrotoluene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Benzidine | 10 U | µg/L | 10 | 41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Fluorene | 0.082 U | µg/L | 0.082 | 0.33 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Nitrobenzene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Phenanthrene | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2,4-Dichlorophenol | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2,4-Dinitrotoluene | 0.15 U | µg/L | 0.15 | 0.62 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 4-Chlorophenyl phenyl ether | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Benzo(g,h,i)perylene | 0.21 U | µg/L | 0.21 | 0.82 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Hexachlorocyclopentadiene | 0.21 U | µg/L | 0.21 | 0.82 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Pentachlorophenol | 2.1 U | µg/L | 2.1 | 8.2 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | 2-Chlorophenol | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Acenaphthylene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Benzo(b)fluoranthene | 0.15 U | µg/L | 0.15 | 0.62 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Benzo(k)fluoranthene | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Chrysene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 10:35 | Effluent Grab | Priority Organic Pollutants | Butyl benzyl phthalate | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Dissolved Oxygen %Sat | 88.6 | %Sat | | |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | pH | 7.11 | SU | | |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Specific Conductance | 1,579 | µmhos/cm | | |
| 6/9/2025 10:35 | Effluent Grab | Nutrients | Temperature | 29.38 | C | | |
| 6/5/2025 10:50 | Equipment Blank | Nutrients | NO2NO3-N | 0.004 U | mg N/L | 0.0040 | 0.010 |
| 6/5/2025 10:50 | Equipment Blank | Nutrients | Kjeldahl Nitrogen | 0.080 U | mg N/L | 0.080 | 0.20 |
| 6/5/2025 10:50 | Equipment Blank | Nutrients | Total-P | 0.007 | mg P/L | 0.0020 | 0.0050 |
| 6/9/2025 11:00 | Field Blank | Metals | Iron | 30 U | µg/L | 30 | 120 |
| 6/9/2025 11:00 | Field Blank | Metals | Cadmium | 0.020 U | µg/L | 0.020 | 0.080 |
| 6/9/2025 11:00 | Field Blank | Metals | Sodium | 0.50 U | mg/L | 0.50 | 2.0 |
| 6/9/2025 11:00 | Field Blank | Metals | Zinc | 5.0 U | µg/L | 5.0 | 20 |
| 6/9/2025 11:00 | Field Blank | Metals | Potassium | 0.30 U | mg/L | 0.30 | 1.2 |
| 6/9/2025 11:00 | Field Blank | Metals | Calcium | 0.075 U | mg/L | 0.075 | 0.30 |
| 6/9/2025 11:00 | Field Blank | Metals | Selenium | 0.20 U | µg/L | 0.20 | 0.80 |
| 6/9/2025 11:00 | Field Blank | Metals | Arsenic | 0.050 U | µg/L | 0.050 | 0.20 |
| 6/9/2025 11:00 | Field Blank | Metals | Silver | 0.010 U | µg/L | 0.010 | 0.040 |
| 6/9/2025 11:00 | Field Blank | Metals | Copper | 0.40 U | µg/L | 0.40 | 0.80 |
| 6/9/2025 11:00 | Field Blank | Metals | Chromium | 0.40 U | µg/L | 0.40 | 1.6 |
| 6/9/2025 11:00 | Field Blank | Metals | Magnesium | 0.040 U | mg/L | 0.040 | 0.16 |
| 6/9/2025 11:00 | Field Blank | Metals | Nickel | 0.50 U | µg/L | 0.50 | 2.0 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 11:00 | Field Blank | Metals | Aluminum | 5.0 U | µg/L | 5.0 | 20 |
| 6/9/2025 11:00 | Field Blank | Metals | Lead | 0.20 U | µg/L | 0.20 | 0.40 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Color (true) | 2.5 U | PCU | 2.5 | 6.0 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Organic Carbon | 0.50 U | mg C/L | 0.50 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Fluoride | 0.025 U | mg F/L | 0.025 | 0.10 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Turbidity | 0.10 U | NTU | 0.10 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Total-P | 0.002 U | mg P/L | 0.0020 | 0.0050 |
| 6/9/2025 11:00 | Field Blank | Nutrients | NO2NO3-N | 0.004 U | mg N/L | 0.0040 | 0.010 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Kjeldahl Nitrogen | 0.080 U | mg N/L | 0.080 | 0.20 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Ammonia-N | 0.002 U | mg N/L | 0.0020 | 0.0050 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Sulfate | 0.20 U | mg SO4/L | 0.20 | 0.50 |
| 6/9/2025 11:00 | Field Blank | Nutrients | O-Phosphate-P | 0.004 U | mg P/L | 0.0040 | 0.010 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Total Alkalinity | 0.65 U | mg CaCO3/L | 0.65 | 2.5 |
| 6/9/2025 11:00 | Field Blank | Nutrients | Chloride | 0.20 U | mg Cl/L | 0.20 | 0.50 |
| 6/9/2025 11:00 | Field Blank | Overflow | Mercury | 0.20 U | ng/L | 0.20 | 0.50 |
| 6/9/2025 11:00 | Field Blank | Overflow | Sulfide | 1.0 UQ | mg/L | 1.0 | 2.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Ibuprofen | 0.080 U | µg/L | 0.080 | 0.32 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fenamiphos | 0.47 U | ng/L | 0.47 | 2.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fludioxonil | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Flutolanil | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Iprodione | 0.52 U | ng/L | 0.52 | 2.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Metolachlor | 0.78 U | ng/L | 0.78 | 3.9 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Mevinphos | 1.0 U | ng/L | 1.0 | 5.2 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Molinate | 0.26 U | ng/L | 0.26 | 1.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Napropamide | 0.72 U | ng/L | 0.72 | 3.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Oxyfluorfen | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Prodiamine | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Cyanazine | 5.2 U | ng/L | 5.2 | 26 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Ethoprop | 0.13 U | ng/L | 0.13 | 0.65 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fonofos | 0.16 U | ng/L | 0.16 | 0.78 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Pyraflufen Ethyl | 0.31 U | ng/L | 0.31 | 1.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Thiobencarb | 0.52 U | ng/L | 0.52 | 2.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Cyprodinil | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Demeton | 3.6 U | ng/L | 3.6 | 18 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 11:00 | Field Blank | Pesticides | Difenoconazole | 0.62 U | ng/L | 0.62 | 3.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Dimethomorph | 0.67 U | ng/L | 0.67 | 3.4 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fenbuconazole | 0.52 U | ng/L | 0.52 | 2.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fipronil | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Myclobutanil | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Stirophos | 0.41 UJ | ng/L | 0.41 | 3.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Terbufos | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Acetochlor | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Alachlor | 0.41 U | ng/L | 0.41 | 2.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Bromacil | 0.62 U | ng/L | 0.62 | 3.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Chlorpyrifos Methyl | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Diazinon | 0.13 U | ng/L | 0.13 | 0.65 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fipronil Sulfide | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fluazifop-P-butyl | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Norflurazon | 1.0 U | ng/L | 1.0 | 5.2 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Parathion Ethyl | 0.16 U | ng/L | 0.16 | 0.78 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Pendimethalin | 1.8 U | ng/L | 1.8 | 8.8 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Phorate | 0.26 U | ng/L | 0.26 | 1.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Pronamide | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Propanil | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Sulfentrazone | 1.4 U | ng/L | 1.4 | 7.2 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Atrazine | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | EPTC | 0.52 U | ng/L | 0.52 | 2.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fipronil Sulfone | 0.26 U | ng/L | 0.26 | 1.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Imazalil | 0.67 U | ng/L | 0.67 | 3.4 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Propiconazole | 0.62 U | ng/L | 0.62 | 3.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Tebuconazole | 1.4 U | ng/L | 1.4 | 7.2 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Pyridaben | 1.4 U | ng/L | 1.4 | 7.2 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Carbophenothion | 0.52 U | ng/L | 0.52 | 2.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Caffeine | 7.8 U | ng/L | 7.8 | 39 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Chlorfenapyr | 0.31 U | ng/L | 0.31 | 1.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Sucralose | 0.010 U | µg/L | 0.010 | 0.040 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Etridiazole | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Fipronil Desulfinyl | 0.10 U | ng/L | 0.10 | 0.52 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 11:00 | Field Blank | Pesticides | Fluxapyroxad | 0.26 U | ng/L | 0.26 | 1.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Pyriproxyfen | 0.26 U | ng/L | 0.26 | 1.7 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Terbuthylazine | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Triadimefon | 0.16 U | ng/L | 0.16 | 0.78 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Ametryn | 1.1 U | ng/L | 1.1 | 5.7 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Atrazine Desethyl | 1.3 U | ng/L | 1.3 | 6.7 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Azoxystrobin | 0.41 U | ng/L | 0.41 | 2.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Carfentrazone Ethyl | 0.16 U | ng/L | 0.16 | 0.78 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Dimethenamid | 0.10 U | ng/L | 0.10 | 0.52 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Flumioxazin | 3.1 U | ng/L | 3.1 | 16 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Hexazinone | 0.52 U | ng/L | 0.52 | 2.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Malathion | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Metalaxyl | 0.52 U | ng/L | 0.52 | 2.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Naled | 2.6 U | ng/L | 2.6 | 13 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Phenytoin | 5.5 U | ng/L | 5.5 | 27 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Propargite | 0.83 U | ng/L | 0.83 | 4.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Simazine | 0.26 U | ng/L | 0.26 | 1.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Butylate | 0.47 U | ng/L | 0.47 | 2.3 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Naproxen | 0.0080 U | µg/L | 0.0080 | 0.032 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Loratadine | 0.31 U | ng/L | 0.31 | 1.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Metribuzin | 0.41 U | ng/L | 0.41 | 2.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Oxadiazon | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Parathion Methyl | 0.21 U | ng/L | 0.21 | 1.0 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Prometon | 3.1 U | ng/L | 3.1 | 16 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Prometryn | 0.36 U | ng/L | 0.36 | 1.8 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Azinphos Methyl | 3.1 U | ng/L | 3.1 | 16 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Chlorpyrifos Ethyl | 0.31 U | ng/L | 0.31 | 1.6 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Coumaphos | 1.1 U | ng/L | 1.1 | 5.7 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Disulfoton | 0.62 U | ng/L | 0.62 | 3.1 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Dithiopyr | 2.1 U | ng/L | 2.1 | 10 |
| 6/9/2025 11:00 | Field Blank | Pesticides | Ethion | 0.31 UJ | ng/L | 0.31 | 1.6 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2,4-Dinitrotoluene | 0.15 U | µg/L | 0.15 | 0.62 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Naphthalene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Di-n-octyl phthalate | 1.0 U | µg/L | 1.0 | 4.1 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Dimethyl phthalate | 0.31 U | µg/L | 0.31 | 1.2 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Pyrene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Benzo(a)pyrene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Indeno(1,2,3-cd)pyrene | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Hexachlorocyclopentadiene | 0.21 U | µg/L | 0.21 | 0.82 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Diethyl phthalate | 1.5 U | µg/L | 1.5 | 6.2 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Butyl benzyl phthalate | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Bis(2-ethylhexyl)phthalate | 2.1 U | µg/L | 2.1 | 8.2 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Benzo(k)fluoranthene | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2-Chlorophenol | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2,4-Dinitrophenol | 10 U | µg/L | 10 | 41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2,6-Dinitrotoluene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 3,3'-Dichlorobenzidine | 4.1 U | µg/L | 4.1 | 16 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 4-Nitrophenol | 5.1 U | µg/L | 5.1 | 21 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Benzo(b)fluoranthene | 0.15 U | µg/L | 0.15 | 0.62 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Hexachloroethane | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Isophorone | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | N-Nitrosodi-n-propylamine | 0.12 U | µg/L | 0.12 | 0.49 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2,4-Dimethylphenol | 4.1 U | µg/L | 4.1 | 16 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Acenaphthylene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Bis(2-chloroethoxy)methane | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Pentachlorophenol | 2.1 U | µg/L | 2.1 | 8.2 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2-Chloronaphthalene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Acenaphthene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Bis(2-chloroethyl)ether | 0.21 U | µg/L | 0.21 | 0.82 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Hexachlorobutadiene | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | N-Nitrosodimethylamine | 2.6 U | µg/L | 2.6 | 10 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Nitrobenzene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2,4-Dichlorophenol | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2,4,6-Trichlorophenol | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 4-Chlorophenyl phenyl ether | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Benzo(g,h,i)perylene | 0.21 U | µg/L | 0.21 | 0.82 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Di-n-butyl phthalate | 3.1 U | µg/L | 3.1 | 12 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Hexachlorobenzene | 0.062 U | µg/L | 0.062 | 0.25 |

| Date Sampled | Site ID | Analysis Group | Component | Result | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 1,2,4-Trichlorobenzene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2-Nitrophenol | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Anthracene | 0.062 U | µg/L | 0.062 | 0.25 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Benzidine | 10 U | µg/L | 10 | 41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Benzo(a)anthracene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Bis(2-chloroisopropyl)ether | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Dibenzo(a,h)anthracene | 0.51 U | µg/L | 0.51 | 2.1 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Fluorene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Fluoranthene | 0.10 U | µg/L | 0.10 | 0.41 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Phenol | 0.21 U | µg/L | 0.21 | 0.82 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 2-Methyl-4,6-dinitrophenol | 3.1 U | µg/L | 3.1 | 12 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Chrysene | 0.082 U | µg/L | 0.082 | 0.33 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | Phenanthrene | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 4-Bromophenyl phenyl ether | 0.072 U | µg/L | 0.072 | 0.29 |
| 6/9/2025 11:00 | Field Blank | Priority Organic Pollutants | 4-Chloro-3-methylphenol | 0.31 U | µg/L | 0.31 | 1.2 |