Effluent Quality Assessment of City of Winter Haven WWTF #3 Polk County NPDES # FL0036048 Sampled March 10, 2025

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

All analytes measured in the effluent samples complied with effluent permit limits and Class III Water Quality Criteria for Fresh Waters. Algal growth potential (AGP) and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. There were seven organic constituents detected in the effluent grab sample.

Facility Overview

The City of Winter Haven WWTF #3 is a domestic wastewater treatment facility. A Facility Summary, including a description of the facility, summary of permit limits, and any relevant Administrative Order (AO), Consent Order (CO), and Discharge Monitoring Report (DMR) information is provided in Appendix A. The effluent is continuously discharged into an unnamed ditch which flows into the Peace Creek Drainage Canal, and ultimately to the Peace River Above Bowleg Creek, a Class III Fresh Water [waterbody identification (WBID) 1623J] (Figure 1).

The Peace River 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 Peace River 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 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 flow-proportioned composite samples were collected from monitoring site location EFD-01, for outfall D-001 on March 10, 2025.

Samples were collected by Emmalise Hunter and Alexandra Myers (Southwest District). Analyses were performed by Eurofins Environmental Testing in Orlando, Benchmark EnviroAnalytical in Palmetto, 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.

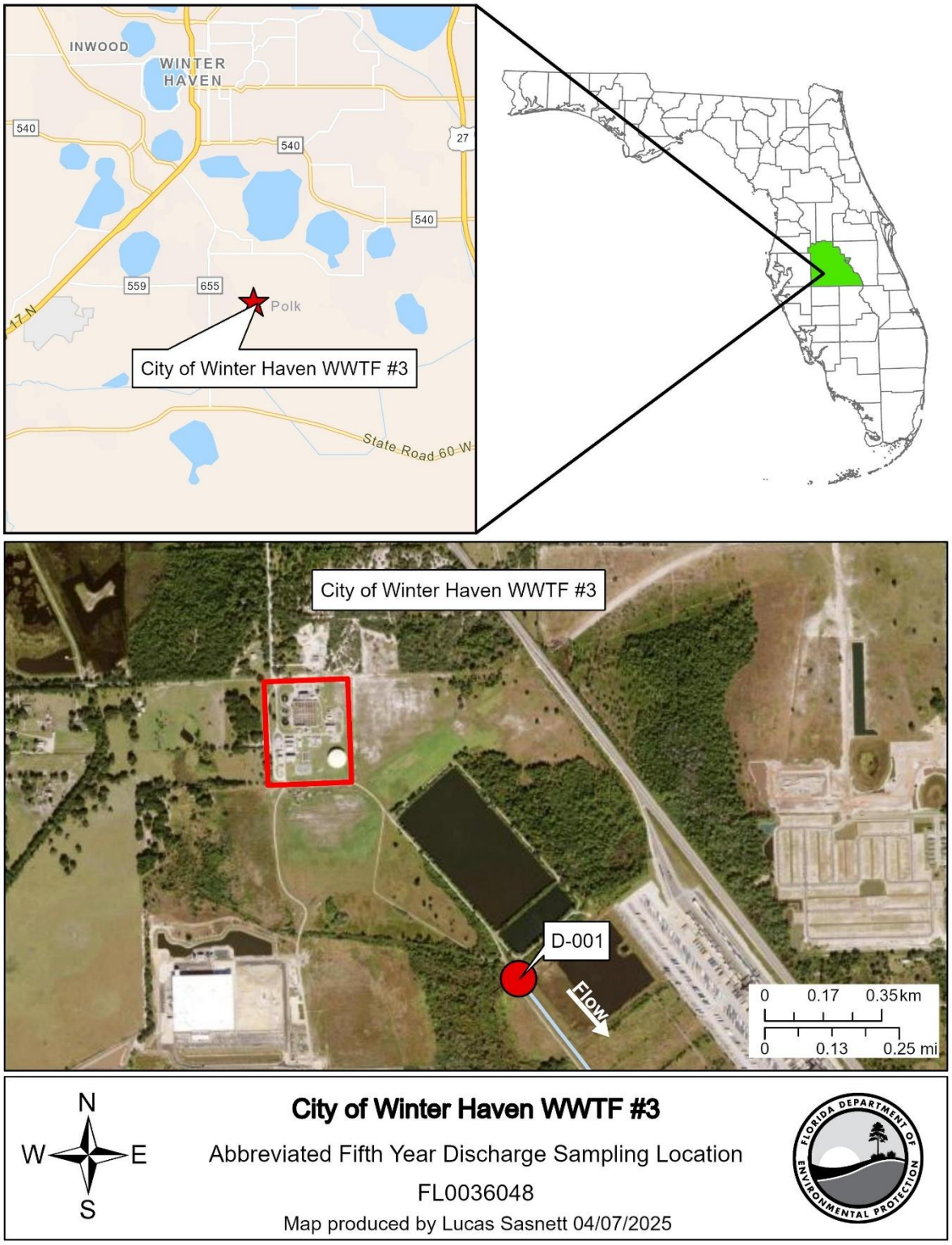


Figure 1. Map of Facility and Discharge Location

Results

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

- All effluent water quality parameters measured at EFD-01 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.

- Total suspended solids, total phosphorus, total Kjeldahl nitrogen, and nitrate and nitrite were not analyzed in the effluent composite sample because there was insufficient volume for all scheduled analyses.

- For comparative purposes only, the effluent grab single sample value for total nitrogen was greater than the West Central NNC annual geometric mean value for the region.

Microbiology (See Table 2 and Appendix B)

- Effluent *Escherichia coli* (*E. coli*) complied with Class III Water Quality Criteria for Fresh Waters.

- Effluent *E. coli* and fecal coliform levels complied with effluent permit limits for EFA-01.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed March 11 through March 15, 2025.

- The sample was aerated for 10 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 11.0 mg/L to 8.9 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, *Pimeophales promelas*, was >100% effluent with 0% 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 sample. The analytical chemistry suggests that the effluent is nitrogen-limited (Miller et al. 1978).

- The effluent grab sample AGP result of 3.30 mg dry wt/L is within the AGP range (0.81 to 6.00 mg dry wt/L) suggested to be representative of moderately high productivity for freshwater (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.

Organic Constituents (See Table 5 and Appendix D)

- Atrazine (herbicide), azoxystrobin (fungicide), fipronil desulfinyl (insecticide), fipronil sulfide (insecticide), fluxapyroxad (fungicide), sulfentrazone (herbicide), and tebuconazole (fungicide) were detected in the effluent grab sample.

- There are no effluent permit limits for organic constituents.

- Azoxystrobin, fluxapyroxad and tebuconazole were J-qualified due to internal standard recovery exceeding control limits.

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.

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	EFD-01
Temperature	C	-	Report	25.9
pH	SU	6.0 - 8.5	6.0 - 8.5	7.2
Specific Conductance	μmhos/cm	≤ 1,275	-	812
Salinity	ppt	-	-	0.4 c
Dissolved Oxygen	% saturation	≥ 38	-	106.5
Dissolved Oxygen	mg/L	-	≥ 5	-
Total Residual Chlorine (for dechlorination)	mg/L	-	≤ 0.01	-

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

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	-	-	-	0.2
Total Phosphorus	mg P/L	≤ 0.49 g	≤ 2.0 sp	-	0.34
Total Ammonia Nitrogen	mg N/L	≤ 2.94 c	Report	-	0.07
Un-ionized Ammonia (calc salinity)	mg NH3/L	-	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	-	0.98
Total Kjeldahl Nitrogen	mg N/L	-	-	-	1.1
Organic Nitrogen	mg N/L	-	-	-	1 c
Total Nitrogen	mg N/L	≤ 1.65 g	≤ 6.0 sp	-	2.1 c
Total Organic Carbon	mg C/L	-	-	-	7.5
Chlorophyll *a* - Corrected	µg/L	-	-	-	1.5 I
Phaeophytin	µg/L	-	-	-	1.0 U
Chlorophyll *a*	µg/L	-	-	-	1.4 I
CBOD, 5 day, N - inhibited	mg/L	-	Report	2.0 U	-
Total Suspended Solids	mg/L	-	≤ 60.0 sp	-	-
Turbidity	NTU	≤ 29 t	-	-	0.9 I
Color (true)	PCU	-	-	-	7.0
Alkalinity	mg CaCO3/L	≥ 20	-	-	129
Chloride	mg Cl/L	-	-	-	120
Fluoride	mg F/L	≤ 10.0	-	-	0.22
Sulfate	mg SO4/L	-	-	-	66
Fecal Coliforms	cfu/100 mL	-	≤ 800 s (EFA-01)	-	100 B
Escherichia coli	MPN/100 mL	≤ 410	≤ 410 (EFA-01)	-	10 U
Bioassay - Water flea *(C. dubia)*	% effluent	-	≥ 100 sp	> 100	-
Bioassay - Fish *(P. promelas)*	% effluent	-	≥ 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 flow proportioned composite
s - Single sample
t - Shall not exceed 29 NTUs above background.
B - Results based on colony counts outside the acceptance range.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
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	-	-	146 c
Aluminum	µg/L	-	-	353
Arsenic	µg/L	≤ 50	-	0.22
Cadmium	µg/L	≤ 0.358 b	-	0.02 U
Calcium	mg/L	-	-	45.0
Chromium, Total [1]	µg/L	≤ 117 b	-	0.4 U
Copper	µg/L	≤ 12.9 b	-	0.87
Iron	µg/L	≤ 1,000	-	31.4 I
Lead	µg/L	≤ 5.15 b	-	0.2 U
Magnesium	mg/L	-	-	8.17
Nickel	µg/L	≤ 71.9 b	-	1.1 I
Potassium	mg/L	-	-	13.6
Selenium	µg/L	≤ 5.0	-	0.2 U
Silver	µg/L	≤ 0.07	-	0.01 U
Sodium	mg/L	-	-	101
Zinc	µg/L	≤ 165 b	-	47.4

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.

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

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

1 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III.

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*	3.3	40 ± 8	86 ± 17	79 ± 16	150 ± 29	5.3	6.1

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	-	-	31
Azoxystrobin	ng/L	-	-	16 J
Fipronil Desulfinyl	ng/L	-	-	0.2 I
Fipronil Sulfide	ng/L	-	-	0.49 I
Fluxapyroxad	ng/L	-	-	1.3 J
Sulfentrazone	ng/L	-	-	4.6 I
Tebuconazole	ng/L	-	-	7.7 J

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. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Emmalise Hunter	Contact Number: 813-470-5787
Facility Name (as it appears on permit): City of Winter Haven WWTF #3	Former Names: N/A
NPDES Permit Number: FL0036048	Permit Expiration Date: September 6, 2026.
Physical Address: 4400 Pollard Rd, Winter Haven, FL 33884-2870	
District: Southwest	County: Polk
Function of Facility: An existing 7.5 MGD Annual Average Daily Flow (AADF) Type I domestic wastewater treatment facility.	
Facility Type: Domestic Wastewater	Permitted Capacity (MGD): 7.5 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): (1/01/2024-12/31/2024) FLW-02: 4.45 MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): (01/01/2024-12/31/2024) FLW-03: 0.93 MGD	
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): *Samples will be collected at EFD-01 and EFA-01*	

Monitoring Site Number	Description of Monitoring Site
FLW-02	From the flow measuring device at the discharge from the post aeration basin.

EFD-01	At the discharge from the post aeration basin, before discharge to D-001.
EFA-01	After disinfection, before discharge to R-001.
Monitoring Site Number	Description of Monitoring Site
FLW-03	Flow to R-002: Flow meter prior to discharge to the MRS.
EFA-01	After disinfection.
EFB-01	After filtration and prior to disinfection.

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 7.5 MGD AADF permitted discharge to an unnamed ditch (Class III fresh waters, WBID No. 1602) that flows into the Peace Creek Drainage Canal (Class III Fresh waters, WBID 1539) and ultimately to the Peace River Above Bowleg Creek (Class III fresh waters, WBIDs 1623J) at Discharge Location D-001. The outfall is located approximately at latitude 27° 56' 42.07" N, longitude 81° 42' 09.8" W.

Land Application R-002: An existing 4.3 MGD AADF permitted capacity slow-rate public access system. The City of Winter Haven #3 WWTF serves as a source facility for the City of Winter Haven #2 WWTF Master Reuse System (MRS), Permit No. FLA129747.

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

An existing 7.5 MGD Annual Average Daily Flow (AADF) Type I activated sludge domestic wastewater treatment facility, operating as a Four-Stage Bardenpho process, consisting of: three mechanical bar screens, one manual bar screen, one aerated grit chamber of 60,318 gallons, two anoxic basins of 600,000 gallons total volume, three aeration basins of 3.62 Million Gallons (MG) total volume, one post-anoxic basin of 430,000 gallons, one post-aeration basin of 100,000 gallons, three clarifiers of 1.41 MG total volume with a total surface area of 15,239 square feet, three traveling bridge filters of 3,648 square feet total filtration area, two chlorine contact chambers of 380,000 gallons total volume, and two de-chlorination/reaeration basins of 187,500 gallons total volume.

Effluent for surface water discharge (D-001) is conveyed to a 30-acre polishing pond. From the polishing pond, effluent is discharged into an unnamed ditch which flows into the Peace Creek Drainage Canal, and thence the Peace River Above Bowleg Creek.

Effluent for the public access reuse system (R-002) is discharged to a 5 million-gallon (MG) storage tank which pumps into the master reuse system.

PART I: Continued

List current 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					
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	7.5 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-02	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max	Report (1) Report (1)	Monthly Average Weekly Average	5 Days/Week	24-hr FPC	EFD-01	See I.A.6 and I.A.14
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFD-01	See I.A.6
Nitrogen, Total	mg/L	Max Max Max Max	3.0 3.75 4.5 6.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFD-01	
Phosphorus, Total (as P)	mg/L	Max Max Max Max	1.0 1.25 1.5 2.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFD-01	

pH	s.u.	Max Min	8.5 6.0	Single Sample Single Sample	Continuous	Meter	EFD-01	See I.A.3 and I.A.10
Coliform, Fecal	#/100mL	Max Max Max Max	200 200 400 800	Annual Average Monthly Geometric Mean 90th Percentile Single Sample	5 Days/Week	Grab	EFA-01	See I.A.7 and I.A.8
E.coli	#/100mL	Max Max	126 410	Monthly Geometric Mean 90th Percentile	5 Days/Week	Grab	EFA-01	See I.A.7 and I.A.8
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Continuous	Meter	EFA-01	See I.A.3 and I.A.9
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	7 Days/Week	Grab	EFD-01	See I.A.3 and I.A.9
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	7 Days/Week	Grab	EFD-01	

		Effluent Limitations						
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Temperature (C), Water	Deg C	Max	Report	Single Sample	5 Days/Week	Grab	EFD-01	See I.A.10

Nitrogen, Ammonia, Total (as N) (effluent)	mg/L	Max	Report	Daily Maximum	5 Days/Week	Grab	EFD-01	See I.A.10, I.A.11, and I.A.12
Nitrogen, Ammonia, Total (as N) (effluent)	mg/L	Max	Report	Monthly Average	Monthly, when discharging	Calculated	EFD-01	See I.A.10, I.A.11, and I.A.12
Nitrogen, Ammonia, Total (as N) (calculated limit)	mg/L	Max	Report	Monthly Average	Monthly, when discharging	Calculated	EFD-01	See I.A.10, I.A.11, and I.A.12
Nitrogen, Ammonia, Total (as N) (effluent minus calculated limit)	mg/L	Max	0.00	Monthly Average	Monthly, when discharging	Calculated	EFD-01	See I.A.10, I.A.11, and I.A.12
Nitrogen, Ammonia, Total (as N)	Ratio	Max	2.5	Single Sample	Monthly, when discharging	Calculated	EFD-01	See I.A.10, I.A.11, and I.A.12
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFD-01	See I.A.13
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFD-01	See I.A.13

PART I: Continued	
Receiving Waters: Peace Creek Drainage Canal (Peace River Above Bowleg Creek)	Classification (indicate whether fresh or marine): Class III Fresh Waters (WBID# 1539)

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

13. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001. a. Effluent Limitation (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) for reproduction or growth shall not be less than 100% effluent. [Rules 62-302.530(62) and 62-4.241(1)(b), F.A.C.]

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

b. Monitoring Frequency (1) Routine toxicity tests shall be conducted once every six months, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.

c. Sampling Requirements (1) For each routine test or additional follow-up test conducted, a total of three flow proportional 24-hr composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.

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

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

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

(2) The permittee shall conduct a daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and a fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th Edition, EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.

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

e. Quality Assurance Requirements (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, 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 20% for either species in any test or the "test acceptability criteria" are not met, the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (**Ceriodaphnia dubia**) and Section 11.11 (**Pimephales promelas**). The repeat test shall begin within 21 days after the last day of the invalid test.

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

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

f. Reporting Requirements (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows: (a) Routine and Additional Follow-up Test Results: The calculated IC25 for reproduction or growth for each test species shall be entered on the DMR.

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

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed 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:

g. Test Failures (1) A test fails when the test results do not meet the limits in I.A.13.a.(1).

(2) Additional Follow-up Tests: (a) If a routine test does not meet the chronic toxicity limitation in I.A.13.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.13.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%, 50%, 25%, 12.5%, and 6.25% 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 analyzed according to the procedures in EPA-821-R-02-013.

(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 13.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 13.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in I.A.13.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 21 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) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in

Florida Department of Environmental Protection
Southwest District Office
13051 N Telecom Pkwy, Suite 101
Temple Terrace, Florida 33637
Email: swd_dw@floridadep.gov

I.A.13.a.(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing. (5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures. *[62-4.241, 62-620.620(3)]*
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: FYI3 was conducted on 10/29/2019, no deficiencies noted.
Describe previous or current Enforcement Actions (including WLs): N/A
Describe any violations or problems noted in previous inspection: N/A
Discuss whether DMR trends within previous five years are improving or declining: DMR trends 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

- **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.

- **Algal Growth Potential (AGP)**

  The algal growth potential (AGP) value is the peak growth of the alga within that 14-day period, recorded as mg dry weight/L. AGP results within the range 6.10 to 20.0 mg dry wt/L are suggested to be representative of high productivity for freshwaters (Miller et al. 1978). High AGP values may constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a), F.A.C. and/or Paragraph 62-302.530(48)(b), F.A.C.

  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of ± 20%. When the ratio of nitrogen to phosphorus (N: P) is less than 10:1, nitrogen limitation of algal production is likely. When the N: P ratio is 20:1 or greater, phosphorus limitation is likely (USEPA 2000). For ratios in-between, co-limitation may occur. Production of lower biomass than expected may be evidence of growth inhibition related to toxic compounds present in the water sample tested and may constitute an exceedance of Subsection 62-302.530(62), F.A.C.

- **Chlorophyll *a* Content**

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

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

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

B - Results based on colony counts outside the acceptable range.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J - Estimated value 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 C. Chain of Custody

Request Number: RQ-2025-02-24-11

SWD FYI3 Winter Haven, City of - WWTP#3 (FL0036048)

Customer: SW-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 4
last revised Jan 25, 2018

Requester: Benjamin Nomann
Field Report Prepared By: Emmalise Hunter
Collected By: Emmalise Hunter and Alexandra Myers
Sampling Agency: SWD FDEP

Location: City of Winter Haven WWTP#3	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/10/25 Time 9:41 am	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2): A
Field ID: EFD-01	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 106.5	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C): 25.9	pH: 7.17	Sample Depth: Point of discharge	☐ ft ☐ m	Sp. Conductance (umho/cm): 812	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt):	Comments:
Location: City of Winter Haven WWTP#3	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 3/9/25 Time 8:00am	Eastern Central	Composite end Date 3/10/25 Time 8:00am	Bottle Group(s): B
Field ID: EFD-01	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 106.5	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C): 25.9	pH: 7.17	Sample Depth: Point of discharge	☐ ft ☐ m	Sp. Conductance (umho/cm): 812	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt): 0.40	Comments: Ran out of composite - unable to finish filling toxicity TSS and NO2+NO3
Location: City of Winter Haven WWTP#3	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/10/25 Time 9:57am	Eastern Central	Composite end Date	Time	Bottle Group(s): C
Field ID: Field Blank	Matrix (type, e.g., Salt, Fresh, etc): DI	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
Emmalise Hunter	3/10/25 2:15pm	FEDEX	3	BD	03/11/2025 9:10

Benchmark EnviroAnalytical, Inc.
E84167
1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986 / (941) 723-6061 fax
Sample Temperature checked upon receipt at BEA with Temperature Gun ID #258

Benchmark EA South E85086
1001 Corporate Avenue, Suite 102
North Port, FL 34289
(941) 625-3137
(941) 423-7336 fax
Sample Temperature checked upon receipt at BEAS with Temperature Gun ID #7

Client Information: FDEP
Address: 13051 N. Telecom Parkway
Tampa FL 33604
Phone # 815-470-5878
Report to: benjamin.paswater@dep.state.fl.us & emmalise.c.hunter@floridaDEP.gov
Invoice to: FDEP Micro Overflow

PO#_____

Project Name: Winter Haven WWTP#3 RQ-2025-02-24-11

Laboratory Submission # 25030407

Sample Name	Sample Type[1] / Sample Matrix[2]	Collection Date	Collection Time	Container Qty	Container Capacity	Container Type[3]	Preservative[4]	Parameters for Analysis	Laboratory Sample #
EFF-1	G	3/10/25	9:40am	1	250mL	P	ICE	Fecal	1
EFF-1	G	3/10/25	9:40am	1	250mL	P	ICE	E. Coli	2

Sopov_M
Talked to Emmalise and she said the correct collection time is 9:41am.

Notes:
1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), fresh surface water (FSW), saline surface water (SSW), soil, sediment (SDMNT), or sludge (SLDG).
3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4. Sample must be refrigerated or stored in wet ice after collection. The temperature during storage should be less than or equal to 6°C (42.8°F).
5. Under "Preservative," list any preservatives that were added to the sample container. Lot Number of preservative used is specific to the bottles included in the kit. $NaThio$, H_2SO_4 and HNO_3 do not have expiration dates per the manufacturer.

Instructions:
1. Each bottle has a label identifying sample ID, preseasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.
5. Sample kit has been created by BEA using new, certified bottles.

Laboratory Sample Acceptability:
pH <2 ✓ BEA Temperature: 1.3 °C
BEAS Temperature:

	Collected / Relinquished By & Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time
1	Emmalise Hunter	3/10/25	12:08pm	Nathan Hadsell	3-10-25	1800
2	Relinquished By& Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time

8.8018

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

Contract Manager: Linda Allen/Devan Cobb (850)-245-8084 / (850) 245-8078
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: Devan R. Cobb-Williams Contractor Approval By: _____
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 2/5/2025
Means of Contact: Email

Task Assignment Number: OV651 Maximum Cost: **$41.50** Turnaround Time: 5 BD

Sample Delivery Date: 3/11/2025

Project Name/Description:
RQ-2025-02-24-11;SWD FY13 Winter Haven, City of - WWTP#3 (FL0036048)

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		$39.00		$39.00
217/Sample Disposal Fee:	1				$2.50		$2.50
Total Number of Containers Shipped:	1					**Total:**	**$41.50**

400-272214 Chain of Custody

QC Instructions:

Comments: Quote #

Samples released to Contract Lab by: _____ Date/Time: _____

Delivery Method: Shipping

Samples Accepted by: [illegible] 24JR11 Date/Time 3/11/26 942

* **Please sign and return by email to** Linda.S.Allen@FloridaDEP.gov and Devan.R.Cobb@dep.state.fl.us

Appendix D. Chemical Analysis of Effluent

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 8:00	Effluent Composite	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0
3/10/2025 8:00	Effluent Composite	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
3/10/2025 8:00	Effluent Composite	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
3/10/2025 8:00	Effluent Composite	Nutrients	pH	7.17			
3/10/2025 8:00	Effluent Composite	Nutrients	Temperature	25.9	C		
3/10/2025 8:00	Effluent Composite	Nutrients	Specific Conductance	812	µmhos/cm		
3/10/2025 8:00	Effluent Composite	Nutrients	Dissolved Oxygen %Sat	106.5	%Sat		
3/10/2025 9:41	Effluent Grab	AGP/LN	Algal Growth Potential	3.30	mg DryWt/L	0.300	0.900
3/10/2025 9:41	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	1.4 I	µg/L	0.68	2.0
3/10/2025 9:41	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.5 I	µg/L	0.93	2.8
3/10/2025 9:41	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.0 U	µg/L	1.0	3.0
3/10/2025 9:41	Effluent Grab	Overflow	Escherichia Coli-Quanti-Tray	10 U	MPN/100 mL	10	10
3/10/2025 9:41	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	100 B	cfu/100 mL	10	10
3/10/2025 9:41	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
3/10/2025 9:41	Effluent Grab	Metals	Aluminum	353	µg/L	5.0	20
3/10/2025 9:41	Effluent Grab	Metals	Potassium	13.6	mg/L	0.30	1.2
3/10/2025 9:41	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
3/10/2025 9:41	Effluent Grab	Metals	Sodium	101	mg/L	0.50	2.0
3/10/2025 9:41	Effluent Grab	Metals	Magnesium	8.17	mg/L	0.040	0.16
3/10/2025 9:41	Effluent Grab	Metals	Arsenic	0.22	µg/L	0.050	0.20
3/10/2025 9:41	Effluent Grab	Metals	Nickel	1.1 I	µg/L	0.50	2.0
3/10/2025 9:41	Effluent Grab	Metals	Calcium	45.0	mg/L	0.075	0.30
3/10/2025 9:41	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
3/10/2025 9:41	Effluent Grab	Metals	Copper	0.87	µg/L	0.40	0.80
3/10/2025 9:41	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
3/10/2025 9:41	Effluent Grab	Metals	Iron	31.4 I	µg/L	30	120
3/10/2025 9:41	Effluent Grab	Metals	Zinc	47.4	µg/L	5.0	20
3/10/2025 9:41	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
3/10/2025 9:41	Effluent Grab	Nutrients	Sulfate	66	mg SO4/L	0.40	1.0
3/10/2025 9:41	Effluent Grab	Nutrients	Kjeldahl Nitrogen	1.1	mg N/L	0.080	0.20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:41	Effluent Grab	Nutrients	Total-P	0.34	mg P/L	0.010	0.050
3/10/2025 9:41	Effluent Grab	Nutrients	Total Alkalinity	129	mg CaCO3/L	0.65	2.5
3/10/2025 9:41	Effluent Grab	Nutrients	Chloride	120	mg Cl/L	0.40	1.0
3/10/2025 9:41	Effluent Grab	Nutrients	Turbidity	0.90 I	NTU	0.10	1.0
3/10/2025 9:41	Effluent Grab	Nutrients	Ammonia-N	0.070	mg N/L	0.0020	0.0050
3/10/2025 9:41	Effluent Grab	Nutrients	Color (true)	7.0	PCU	2.5	6.0
3/10/2025 9:41	Effluent Grab	Nutrients	Fluoride	0.22	mg F/L	0.025	0.10
3/10/2025 9:41	Effluent Grab	Nutrients	NO2NO3-N	0.98	mg N/L	0.0080	0.020
3/10/2025 9:41	Effluent Grab	Nutrients	O-Phosphate-P	0.20	mg P/L	0.0080	0.020
3/10/2025 9:41	Effluent Grab	Nutrients	Organic Carbon	7.5	mg C/L	0.50	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
3/10/2025 9:41	Effluent Grab	Pesticides	Prometon	3.1 U	ng/L	3.1	16
3/10/2025 9:41	Effluent Grab	Pesticides	Sulfentrazone	4.6 I	ng/L	1.5	7.3
3/10/2025 9:41	Effluent Grab	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Bromacil	0.62 U	ng/L	0.62	3.1
3/10/2025 9:41	Effluent Grab	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.65
3/10/2025 9:41	Effluent Grab	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.65
3/10/2025 9:41	Effluent Grab	Pesticides	Fenbuconazole	0.52 U	ng/L	0.52	2.6
3/10/2025 9:41	Effluent Grab	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	16
3/10/2025 9:41	Effluent Grab	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.4
3/10/2025 9:41	Effluent Grab	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.7
3/10/2025 9:41	Effluent Grab	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
3/10/2025 9:41	Effluent Grab	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.7
3/10/2025 9:41	Effluent Grab	Pesticides	Butylate	0.47 U	ng/L	0.47	2.3
3/10/2025 9:41	Effluent Grab	Pesticides	Carbophenothion	0.52 UJ	ng/L	0.52	2.6
3/10/2025 9:41	Effluent Grab	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8
3/10/2025 9:41	Effluent Grab	Pesticides	Pendimethalin	1.8 U	ng/L	1.8	8.8
3/10/2025 9:41	Effluent Grab	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
3/10/2025 9:41	Effluent Grab	Pesticides	Naled	2.6 U	ng/L	2.6	13
3/10/2025 9:41	Effluent Grab	Pesticides	Sucralose	110	ug/L	0.20	0.80
3/10/2025 9:41	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.16 U	ng/L	0.16	0.78

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:41	Effluent Grab	Pesticides	Demeton	3.6 U	ng/L	3.6	18
3/10/2025 9:41	Effluent Grab	Pesticides	Fipronil Sulfone	0.26 U	ng/L	0.26	1.3
3/10/2025 9:41	Effluent Grab	Pesticides	Fluxapyroxad	1.3 J	ng/L	0.26	1.3
3/10/2025 9:41	Effluent Grab	Pesticides	Parathion Methyl	0.21 U	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Propiconazole	0.62 U	ng/L	0.62	3.1
3/10/2025 9:41	Effluent Grab	Pesticides	Metolachlor	0.78 U	ng/L	0.78	3.9
3/10/2025 9:41	Effluent Grab	Pesticides	Difenoconazole	0.62 U	ng/L	0.62	3.1
3/10/2025 9:41	Effluent Grab	Pesticides	Disulfoton	0.62 U	ng/L	0.62	3.1
3/10/2025 9:41	Effluent Grab	Pesticides	Fenamiphos	0.47 U	ng/L	0.47	2.3
3/10/2025 9:41	Effluent Grab	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.2
3/10/2025 9:41	Effluent Grab	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
3/10/2025 9:41	Effluent Grab	Pesticides	Tebuconazole	7.7 J	ng/L	1.5	7.3
3/10/2025 9:41	Effluent Grab	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.1
3/10/2025 9:41	Effluent Grab	Pesticides	Metalaxyl	0.52 U	ng/L	0.52	2.6
3/10/2025 9:41	Effluent Grab	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.2
3/10/2025 9:41	Effluent Grab	Pesticides	Azoxystrobin	16 J	ng/L	0.41	2.1
3/10/2025 9:41	Effluent Grab	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Pesticides	Ethion	0.31 U	ng/L	0.31	1.6
3/10/2025 9:41	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.20 I	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
3/10/2025 9:41	Effluent Grab	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8
3/10/2025 9:41	Effluent Grab	Pesticides	Naproxen	0.0080 U	ug/L	0.0080	0.032
3/10/2025 9:41	Effluent Grab	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Atrazine	31	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.6
3/10/2025 9:41	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Pesticides	Cyanazine	5.2 U	ng/L	5.2	26
3/10/2025 9:41	Effluent Grab	Pesticides	EPTC	0.52 U	ng/L	0.52	2.6
3/10/2025 9:41	Effluent Grab	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Fipronil Sulfide	0.49 I	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Pesticides	Fonofos	0.16 U	ng/L	0.16	0.78
3/10/2025 9:41	Effluent Grab	Pesticides	Hexazinone	0.52 U	ng/L	0.52	2.6
3/10/2025 9:41	Effluent Grab	Pesticides	Parathion Ethyl	0.16 U	ng/L	0.16	0.78

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:41	Effluent Grab	Pesticides	Ibuprofen	0.080 U	ug/L	0.080	0.32
3/10/2025 9:41	Effluent Grab	Pesticides	Iprodione	0.52 U	ng/L	0.52	2.6
3/10/2025 9:41	Effluent Grab	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Pesticides	Terbufos	0.21 U	ng/L	0.21	1.0
3/10/2025 9:41	Effluent Grab	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.1
3/10/2025 9:41	Effluent Grab	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.7
3/10/2025 9:41	Effluent Grab	Pesticides	Azinphos Methyl	3.1 UJ	ng/L	3.1	16
3/10/2025 9:41	Effluent Grab	Pesticides	Dithiopyr	2.1 U	ng/L	2.1	10
3/10/2025 9:41	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.52
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Isophorone	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.41
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.41
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 UJ	µg/L	10	41
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.21 U	µg/L	0.21	0.82
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Phenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Benzidine	10 UJ	µg/L	10	41
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.52 UJ	µg/L	0.52	2.1
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	41
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 UJ	µg/L	2.1	8.2
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.41
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.052 U	µg/L	0.052	0.21

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.2
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.2
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.2 U	µg/L	5.2	21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Anthracene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 UJ	µg/L	3.1	12
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.1
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 UJ	µg/L	10	41
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:41	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	106.5	%Sat		
3/10/2025 9:41	Effluent Grab	Nutrients	Temperature	25.9	C		
3/10/2025 9:41	Effluent Grab	Nutrients	Specific Conductance	812	µmhos/cm		
3/10/2025 9:41	Effluent Grab	Nutrients	pH	7.17			
3/10/2025 9:57	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:57	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
3/10/2025 9:57	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
3/10/2025 9:57	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
3/10/2025 9:57	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
3/10/2025 9:57	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
3/10/2025 9:57	Field Blank	Metals	Iron	30 U	µg/L	30	120
3/10/2025 9:57	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
3/10/2025 9:57	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
3/10/2025 9:57	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
3/10/2025 9:57	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
3/10/2025 9:57	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
3/10/2025 9:57	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
3/10/2025 9:57	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
3/10/2025 9:57	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
3/10/2025 9:57	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
3/10/2025 9:57	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
3/10/2025 9:57	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
3/10/2025 9:57	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
3/10/2025 9:57	Field Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
3/10/2025 9:57	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
3/10/2025 9:57	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
3/10/2025 9:57	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
3/10/2025 9:57	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
3/10/2025 9:57	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
3/10/2025 9:57	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
3/10/2025 9:57	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
3/10/2025 9:57	Field Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
3/10/2025 9:57	Field Blank	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.1
3/10/2025 9:57	Field Blank	Pesticides	Oxyfluorfen	0.20 U	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Pesticides	Terbufos	0.20 U	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Pesticides	Carfentrazone Ethyl	0.15 U	ng/L	0.15	0.77
3/10/2025 9:57	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.5
3/10/2025 9:57	Field Blank	Pesticides	Demeton	3.6 U	ng/L	3.6	18
3/10/2025 9:57	Field Blank	Pesticides	Fenamiphos	0.46 U	ng/L	0.46	2.3

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:57	Field Blank	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
3/10/2025 9:57	Field Blank	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
3/10/2025 9:57	Field Blank	Pesticides	Fonofos	0.15 U	ng/L	0.15	0.77
3/10/2025 9:57	Field Blank	Pesticides	Metolachlor	0.77 U	ng/L	0.77	3.8
3/10/2025 9:57	Field Blank	Pesticides	Naled	2.6 U	ng/L	2.6	13
3/10/2025 9:57	Field Blank	Pesticides	Prometon	3.1 U	ng/L	3.1	15
3/10/2025 9:57	Field Blank	Pesticides	Propiconazole	0.61 U	ng/L	0.61	3.1
3/10/2025 9:57	Field Blank	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
3/10/2025 9:57	Field Blank	Pesticides	Sulfentrazone	1.4 U	ng/L	1.4	7.2
3/10/2025 9:57	Field Blank	Pesticides	Tebuconazole	1.4 U	ng/L	1.4	7.2
3/10/2025 9:57	Field Blank	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.6
3/10/2025 9:57	Field Blank	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.7
3/10/2025 9:57	Field Blank	Pesticides	Disulfoton	0.61 U	ng/L	0.61	3.1
3/10/2025 9:57	Field Blank	Pesticides	Dithiopyr	2.0 U	ng/L	2.0	10
3/10/2025 9:57	Field Blank	Pesticides	EPTC	0.51 U	ng/L	0.51	2.6
3/10/2025 9:57	Field Blank	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	15
3/10/2025 9:57	Field Blank	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.0
3/10/2025 9:57	Field Blank	Pesticides	Parathion Ethyl	0.15 U	ng/L	0.15	0.77
3/10/2025 9:57	Field Blank	Pesticides	Pendimethalin	1.7 U	ng/L	1.7	8.7
3/10/2025 9:57	Field Blank	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
3/10/2025 9:57	Field Blank	Pesticides	Azoxystrobin	0.41 U	ng/L	0.41	2.0
3/10/2025 9:57	Field Blank	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
3/10/2025 9:57	Field Blank	Pesticides	Parathion Methyl	0.20 U	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.0
3/10/2025 9:57	Field Blank	Pesticides	Azinphos Methyl	3.1 UJ	ng/L	3.1	15
3/10/2025 9:57	Field Blank	Pesticides	Butylate	0.46 U	ng/L	0.46	2.3
3/10/2025 9:57	Field Blank	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Fipronil Sulfone	0.26 U	ng/L	0.26	1.3
3/10/2025 9:57	Field Blank	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.3
3/10/2025 9:57	Field Blank	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8
3/10/2025 9:57	Field Blank	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:57	Field Blank	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
3/10/2025 9:57	Field Blank	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.6
3/10/2025 9:57	Field Blank	Pesticides	Acetochlor	0.20 U	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Pesticides	Carbophenothion	0.51 UJ	ng/L	0.51	2.6
3/10/2025 9:57	Field Blank	Pesticides	Cyanazine	5.1 U	ng/L	5.1	26
3/10/2025 9:57	Field Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.64
3/10/2025 9:57	Field Blank	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.64
3/10/2025 9:57	Field Blank	Pesticides	Fipronil Sulfide	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Hexazinone	0.51 U	ng/L	0.51	2.6
3/10/2025 9:57	Field Blank	Pesticides	Iprodione	0.51 U	ng/L	0.51	2.6
3/10/2025 9:57	Field Blank	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
3/10/2025 9:57	Field Blank	Pesticides	Prodiamine	0.28 I	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Pesticides	Terbuthylazine	0.20 U	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Pesticides	Atrazine	0.20 U	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Pesticides	Fenbuconazole	0.51 U	ng/L	0.51	2.6
3/10/2025 9:57	Field Blank	Pesticides	Sucralose	0.010 U	µg/L	0.010	0.040
3/10/2025 9:57	Field Blank	Pesticides	Metalaxyl	0.51 U	ng/L	0.51	2.6
3/10/2025 9:57	Field Blank	Pesticides	Bromacil	0.61 U	ng/L	0.61	3.1
3/10/2025 9:57	Field Blank	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Difenoconazole	0.61 U	ng/L	0.61	3.1
3/10/2025 9:57	Field Blank	Pesticides	Fipronil Desulfinyl	0.10 U	ng/L	0.10	0.51
3/10/2025 9:57	Field Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.1
3/10/2025 9:57	Field Blank	Pesticides	Ethion	0.31 U	ng/L	0.31	1.5
3/10/2025 9:57	Field Blank	Pesticides	Fipronil	0.20 U	ng/L	0.20	1.0
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.52 UJ	µg/L	0.52	2.1
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Benzidine	10 UJ	µg/L	10	42
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Fluoranthene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Isophorone	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Phenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	4-Nitrophenol	10 UJ	µg/L	10	42
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.4
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.4
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 UJ	µg/L	10	42
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Anthracene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.2 U	µg/L	5.2	21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.2
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.36 I	µg/L	0.21	0.84

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.42
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.42
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	42
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 UJ	µg/L	2.1	8.4
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.052 U	µg/L	0.052	0.21
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.42
3/10/2025 9:57	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 UJ	µg/L	3.1	13