Effluent Quality Assessment of South County Regional AWWTP Hillsborough County NPDES # FL0028061 Sampled February 12, 2024

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
May 2024

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Contents

Summary of Results....3
Facility Overview....3
Methods....3
Results....6
Literature Cited....8
Appendix A. Facility Summary....14
Appendix B. Explanations of Measurements....28
Appendix C. Chain of Custody....30
Appendix D. Chemical Analysis of Effluent....34

List of Tables

Table 1. Measured field parameters.... 9
Table 2. Analytical water chemistry, microbiological, and toxicological data 10
Table 3. Analytical metals data.... 11
Table 4. Algal Growth Potential (AGP) 12
Table 5. Detected Organic Constituents 13

List of Figures

Figure 1. Abrevriated Fifth Year Inspection: Map of Facility and Discharge Location 5

Summary of Results

All analytes measured in the effluent grab and composite samples complied with the Class III Water Quality Criteria for Marine Waters and effluent permit limits. The algal growth potential (AGP) and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. The effluent sample was not toxic to the freshwater organisms tested. There were seventeen organic constituents detected in the effluent grab sample.

Facility Overview

The South County Regional AWWTP Facility 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 Port Redwing Canal to Hillsborough Bay, a Class III Marine Water [waterbody identification (WBID) 1691], and The Kitchen to Hillsborough Bay, a Class III Marine Water [waterbody identification (WBID) 1676] (Figure 1).

Receiving waters for this facility fall under the Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria (NNC) for Hillsborough Bay within the Tampa Bay region. For this region, the NNC, expressed as annual totals, are 1.28 tons/million cubic meters of water total phosphorus and 1.62 tons/million cubic meters of water total nitrogen; and, expressed as an annual mean, 15.0 µg/L chlorophyll *a* (Subparagraph 62-302.532(1)(b)2., F.A.C.). For Class III predominantly marine waters, the daily average dissolved oxygen (DO) saturation shall not be below 42 percent in more than 10 percent of the values (Subsection 62-302.533(2)(a)1., F.A.C.). This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

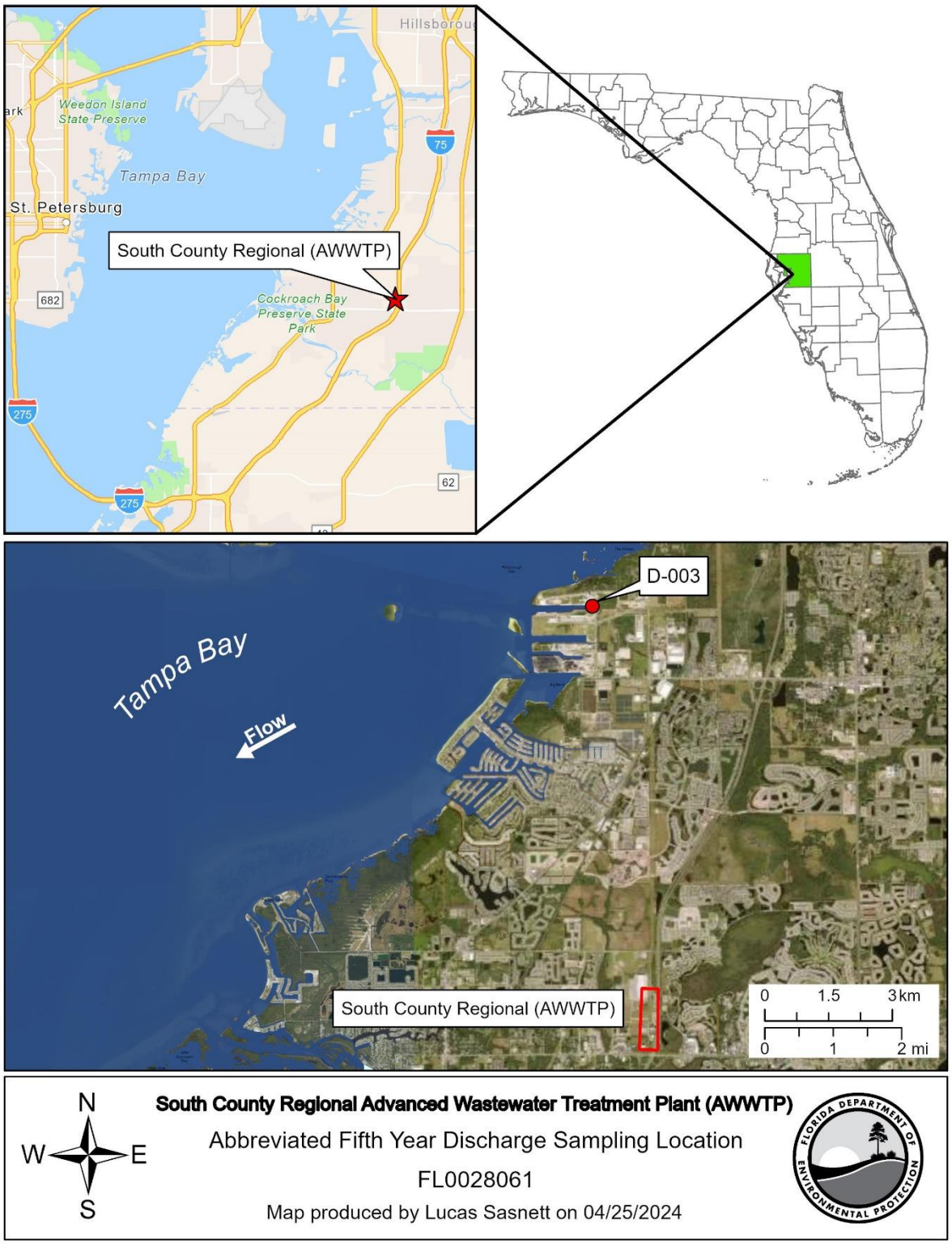
Effluent grab and 24-hour flow proportioned composite samples were collected from monitoring site location EFD-02, for outfall D-003 and D-006 on February 12, 2024.

Samples were collected by Emmalise Hunter, Lauren Ballard, and Emily Larson (Southwest District). Analyses were performed by Eurofins Test America Laboratories in Savannah, Benchmark EnviroAnalytical, Inc. 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 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. Abbreviated Fifth Year Inspection: Map of Facility and Discharge Location



Results

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

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

Analytical Water Chemistry (See Table 2 and Appendix D)

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

Microbiology (See Table 2 and Appendix B)

- Effluent enterococci levels complied with the Class III Water Quality Criterion for Marine Waters.
- Effluent enterococci and fecal coliform levels complied with effluent permit limits.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed February 13 through February 17, 2024.
- The sample was aerated for 15 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 10.0 mg/L to 8.8 mg/L.
- Acute bioassay results are reported as the Concentration Lethal to 50% of the test organisms (LC50).
- In a 96-hour acute definitive test of 100% effluent, mortality of <20% provides confidence that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Paragraph 62-302.500(1)(a), F.A.C.). Mortality between 20 and 50% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% indicates that the effluent fails to meet the minimum requirement to discharge to waters of the state (Paragraph 62-4.244(3)(a), F.A.C.).
- For the 96-hour acute definitive test, the calculated LC50 for the water flea, *Ceriodaphnia dubia*, was >100% effluent with 5% mortality in 100% sample. The calculated LC50 for the fish, *Pimephales promelas*, was >100% effluent with 5% 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 Marine Waters and effluent permit limits.

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 2.1 A 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 7 and Appendix D)

- Atrazine (herbicide), Azoxystrobin (fungicide), Caffeine (stimulant), Cyprodinil (fungicide), Fipronil (insecticide), Fipronil Desulfinyl (insecticide), Fipronil Sulfide (insecticide), Fipronil Sulfone (insecticide), Fludioxonil (fungicide), Loratadine (antihistamine), Metolachlor (herbicide), Metribuzin (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., Maloney, T. E. and Greene, J. C. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA600/978-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Stevenson, R. J. and Bahls, L. L. 1999. Periphyton protocols. Pp. 6.1-6.22 in: Rapid bioassessment protocols for use in wadeable streams and rivers. 2nd edition. By: M. T. Barbour, J. Gerritsen, B. D. Snyder and J. B. Stribling. EPA 841-B-99-002. U. S. Environmental Protection Agency, Office of Water, Washington, D. C.

USEPA. 2000. Nutrient Criteria Technical Guidance Manual – River and Streams. EPA-822-B-00-002.

Table 1. Measured Field Parameters

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

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent EFD-02
Temperature	C	-	-	25.4
pH	SU	6.5 - 8.5	6.5 - 8.5	7.5
Specific Conductance	µmhos/cm	-	-	1,902
Salinity	ppt	-	-	1 c
Dissolved Oxygen	% saturation	≥ 42	-	105.3
Dissolved Oxygen	mg/L	-	≥ 4.1	8.6

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 Marine 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	-	-	-	0.11
Total Phosphorus	mg P/L	-	Report	0.17	0.18
Total Ammonia Nitrogen	mg N/L	-	-	0.022	0.020
Un-ionized Ammonia (calc salinity)	mg N/L	-	-	< 0.02 c	-
Nitrate and Nitrite	mg N/L	-	-	0.52	0.43
Total Kjeldahl Nitrogen	mg N/L	-	-	0.87	0.76
Organic Nitrogen	mg N/L	-	-	0.85 c	0.74 c
Total Nitrogen	mg N/L	-	≤ 6.0 sp	1.39 c	1.19 c
Total Organic Carbon	mg C/L	-	-	7.1	6.5
Chlorophyll *a* - Corrected	µg/L	≤ 15.0 a	-	-	0.82 U
Phaeophytin	µg/L	-	-	-	0.90 U
CBOD, 5 day, N - inhibited	mg/L	-	≤ 10.0 sp	-	2.4 U
Hardness	mg CaCO3/L	-	-	-	326 c
Total Suspended Solids	mg/L	-	≤ 5.0 s	2 U	2 U
Turbidity	NTU	≤ 29 t	-	-	0.50 I
Color (true)	PCU	-	-	-	26 A
Alkalinity	mg CaCO3/L	-	-	-	254
Chloride	mg Cl/L	-	-	-	160
Fluoride	mg F/L	≤ 5.0	-	-	0.76
Sulfate	mg SO4/L	-	-	-	180
Fecal Coliforms	cfu/100 mL	-	≤ 25 s	-	10 U
Escherichia coli	MPN/100 mL	-	-	-	10 U
Enterococci	MPN/100 mL	≤ 130	≤ 276 s	-	10 U
Bioassay - Water flea *(C. dubia)*	% effluent	-	> 100	-	> 100
Bioassay - Fish *(P. promelas)*	% effluent	-	>100	-	> 100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
a - Annual average
c - Value is calculated
p -24-hour flow 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

Table 3. Analytical Metals Data

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Aluminum	µg/L	≤ 1,500	-	12 I
Arsenic	µg/L	≤ 50	-	0.42
Cadmium	µg/L	≤ 8.8	-	0.020 U
Calcium	mg/L	-	-	68.8
Chromium, Total [1]	µg/L	≤ 50	-	0.40 U
Copper	µg/L	≤ 3.7	-	0.40 U
Iron	µg/L	≤ 300	-	30 U
Lead	µg/L	≤ 8.5	-	0.20 U
Magnesium	mg/L	-	-	37.4
Mercury	ng/L	≤ 25	≤ 25	0.21 I
Nickel	µg/L	≤ 8.3	-	1.8 I
Potassium	mg/L	-	-	48.1
Selenium	µg/L	≤ 71	-	0.20 U
Silver	µg/L	≤ 2.3	-	0.010 U
Sodium	mg/L	-	-	113
Zinc	µg/L	≤ 86	-	21

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
U - Material analyzed for but not detected; value reported is the method detection limit
1 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI

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*	2.1 A	17 ± 3.4	47 ± 9.5	45 ± 9	77 ± 16	4.1	6.6

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

Table 5. Detected Organic Constituents

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Atrazine	ng/L	-	-	81
Azoxystrobin	ng/L	-	-	6.2 J
Caffeine	ng/L	-	-	26 I
Cyprodinil	ng/L	-	-	1.8
Fipronil	ng/L	-	-	19
Fipronil Desulfinyl	ng/L	-	-	8.1
Fipronil Sulfide	ng/L	-	-	2.8
Fipronil Sulfone	ng/L	-	-	2.7
Fludioxonil	ng/L	-	-	8.3
Loratadine	ng/L	-	-	2.0
Metolachlor	ng/L	-	-	2.0 I
Metribuzin	ng/L	-	-	0.92 I
Prodiamine	ng/L	-	-	0.24 I
Propiconazole	ng/L	-	-	2.3 I
Simazine	ng/L	-	-	18
Sulfentrazone	ng/L	-	-	8.2
Tebuconazole	ng/L	-	-	6.8 I

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

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Lauren Ballard	Contact Number: 813-470-5784
Facility Name (as it appears on permit): South County Regional Advanced Wastewater Treatment Plant (AWWTP)	Former Names: N/A
NPDES Permit Number: FL0028061	Permit Expiration Date: July 10, 2024
Physical Address: 502 Teco Road, Ruskin FL, 33570	
District: Southwest	County: Hillsborough
Function of Facility: Operation of an existing 10.0 MGD AADF Type I, domestic advanced wastewater treatment facility	
Facility Type: Domestic Wastewater	Permitted Capacity (MGD): 10.00
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): FLW-05 (D-003): 0.218 MGD FLW-08 (D-006): NOD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): FLW-04: (R-001) 4.936 MGD FLW-03: (R-002) 8.45 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):

Effluent Sampling:

Monitoring Site Number	Description of Monitoring Site
FLW-05	Flow meter to outfall, Port Redwing Canal, D-003
FLW-07	Flow Meter at UIC Well U-001
FLW-08	Flow Meterto outfall, Kracker Avenue Estuary project, D-006
FLW-09	Total flow to outfall D-003 and D-006
FLW-10	Flow Meter at UIC Well U-002
FLW-15	Flow from the Falkenburg South Reclaim Pipe
FLW-17	Falkenburg Flow to Outfall Port Redwing Canal, D-003 = If(FLW-10>FLW-15,0,(FLW-05xFLW-25))
FLW-18	South County Flow to Outfall Port Redwing Canal, D-003 = If(FLW-10>FLW-15.FLW-05,(FLW-05x(1-flw-25))
FLW-21	Falkenburg Flow to UIC well U-002, If(FLW-10,<FLW-15,FLW-10,FLW-15)
FLW-23	Falkenburg Flow to Outfall, Kracker Avenue Estuary Project, D-006 If(FLW-10>FLW-15,0,(FLW-08xFLW-25))
FLW-24	South County Flow to Outfall, Kracker Avenue Estuary Project, D-006 = If(FLW-10>FLW-15,FLW-08,(FLW-08x(1-FLW-25))
FLW-25	Percent contribution to FLW-05, FLW-07 & FLW-08 from Falkenburg, If(FLW-15>flw-05+FLW-07+FLW-08+FLW-10,100,(FLW-15-FLW-21)/(FLW-05+FLW-07+FLW-08)
EFA-01	Sample point after disinfection
EFB-01	Sample point after filtration, before disinfection
EFD-02	Sample point after disinfection, before discharging through D-003 and/or D-006
FLW-06	Flow Rate through the UV System
PPI-01	UV System Monitoring Location

Reclaim to Reuse Sampling:

Monitoring Site Number	Description of Monitoring Site
FLW-MRS	Total flow into the SCHCMRS FLW-MRS=FLW-04(R-001)+FLW-Val
FLW-FALK	Flow from the Falkenburg Road AWWTF to the SCHCMRS
FLW-VAL	Flow from the Valrico AWWTF to the SCHCMRS
FLW-02	Flow meter located after South County Reclaimed Tanks
FLW-03	Flow meter to R-002, TECO
FLW-05	Flow meter to outfall, Port Redwing Canal, D-003
FLW-08	Flow meter to outfall, Kracker Avenue Estuary project, D-006
FLW-09	Total flow from D-003 and D-006
FLW-07	Flow Meter at UIC Well U-001
FLW-10	Flow Meter at UIC Well U-002
FLW-11	Flow Meter at UIC Well U-003
FLW-12	Flow Meter at UIC Well U-004
FLW-13	Flow Meter at UIC Well U-005
FLW-14	Flow Meter at UIC Well U-006
FLW-15	Flow from the Falkenburg South Reclaim Pipe
FLW-18	South County Flow to Outfall Port Redwing Canal, D-003=If(FLW-10>FLW-15,FLW-05,(FLW-05x(1-FLW-25))
FLW-20	South County Flow to UIC Well, U-001=If(FLW-10>FLW-15,FLW-07,(FLW-07x(1-(FLW-25))
FLW-21	Falkenburg Flow to UIC well U-002, If(FLW-10<FLW-15,FLW-10,FLW-15)
FLW-22	South County Flow to UIC Well, U-002=If(FLW-1o<FLW-15,0,(FLW-10-FLW-15)
FLW-24	South County Flow to Outfall, Kracker Avenue Estuary Project, D-006=If(FLW-10>FLW-15,FLW-08, (FLW-08x(1-FLW-25))
FLW-25	Percent contribution to FLW-05, FLW-07 & FLW-08 from Falkenburg, IF(FLW-15>FLW-0+FLW-07+FLW-08+FLW-10,100, (FLW-15-FLW-21)/(FLW-05+FLW-07+FLW-08))
FLW-04	FLW-04=FLW-02 (*total plant effluent flow*)-FLW-03 (*TECO*)-FLW-18-FLW-24-(FLW-20+FLW-22+FLW-11+FLW-12+FLW-13+FLW-14)(*UIC Wells*)
EFA-01	Sample point after disinfection
EFB-01	Sample point after filtration, before disinfection
FLW-06	Flow Rate through the UV System
PPI-01	UV System Monitoring Location

Reclaim to UIC Sampling:

Monitoring Site Number	Description of Monitoring Site
FLW-26	UIC Combined Flow, FLW-07+FLW-10+FLW-11+FLW-12+FLW-13+FLW-14
FLW-05	Flow Meter to outfall, Port Redwing Canal, D-003
FLW-07	Flow Meter at UIC Well U-001
FLW-08	Flow Meter to outfall, Kracker Avenue Estuary project, D-006
FLW-10	Flow Meter at UIC Well U-002
FLW-11	Flow Meter at UIC Well U-003
FLW-12	Flow Meter at UIC Well U-004
FLW-13	Flow Meter at UIC Well U-005
FLW-14	Flow Meter at UIC Well U-006
FLW-15	Flow from the Falkenburg South Reclaim Pime
FLW-19	Falkenburg Flow to UIC well U-001, If(FLW-10>FLW-15,0,(FLW-07xFLW-25)
FLW-20	South County Flow to UIC well U-001, =If(FLW-10>FLW-15,FLW07, (FLW-07,(1-(FLW-25))
FLW-21	Falkenburg Flow to UIC well U-002, If(FLW-10<FLW-15,FLW-10,FLW-15)
FLW-22	South County Flow to UIC Well, U-002 =If(FL=10<FLW-15,0,(FLW-10-FLW-15))
FLW-25	Percent contribution to FLW-05, FLW-07 & FLW-08 from Falkenburg, If(FLW-15>FLW-05+FLW-07+FLW-08+FLW-10,100,(FLW-15-FLW-21)/ (FLW-05+FLW-07+FLW-08)

Description of Permitted Outfall(s):

Surface Water Discharge D-001 and D-002: Outfalls D-001 & D-002 are no longer active permitted discharge locations.

Surface Water Discharge D-003: An existing 10.0 MGD AADF discharge to Port Redwing Canal to Hillsborough Bay, Class III Marine waters, (WBID# 1691) which is approximately 20 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 27°48' 28" N, longitude 82°23' 51" W.

Surface Water Discharge D-006: A new 4.0 MGD AADF discharge providing reclaimed water to the Kracker Avenue Environmental Restoration project. The restoration project will assimilate the reclaimed water into the manmade wetland portion of the project, functioning as a head water flow through the site, eventually comingling with tidal waters of The Kitchen (WBID # 1676), and then to the Hillsborough Bay (WBID # 1558 D), Class III Marine Waters. The proposed Kracker Avenue project is a wetland restoration project and will share the maximum surface discharge of 10.0 mgd from all outfalls approved for this facility. The point of discharge is located approximately at latitude 27°48' 57" N, longitude 82°23' 03" W.

Note: Although Outfalls D-003 will remain active after Outfall D-006 is constructed, the total combined discharge to surface waters from both outfalls (D-003 and D-006) will be limited to 10.0 MGD annual average; there will be no increase in discharge volume or load to surface waters presently allocated to this facility.

Intermittently discharging stormwater storage ponds for Part III Reclaimed Water:

D-004: Reclaimed water is stored in storm water storage lake system STM-01 at D-004, Bloomingdale Golf Course Storage Lake system which intermittently discharges to the Alafia River.

D-005: Reclaimed water is stored in storm water storage lake system STM-02 at D-005, Caloosa Golf Course Storage Lake system which intermittently discharges to Cypress Creek.

Underground Injection (UIC) Wells:

The South County Regional AWWTF serves as a source plant of reclaimed water, which is transferred to the UIC Class V, Group 2 Recharge Well System permitted at 29.5 MG max day. All the UIC wells will receive reclaimed water meeting high level disinfection from the Falkenburg, the Valrico and the South County AWWTP. Compliance reporting shall be monitored under the UIC permits.

U-001: An existing underground injection well system consisting of one Class V, Group 2 recharge well (SRWD-1) and three monitoring wells (SMWD-1, SMWC-1 and SMW-1) permitted under Department permit number 0309328-002-UC/5R (WACS ID 100344). U-001 is located at intersection Route 41 & Pembroke Road, Apollo Beach, Florida and approximately at latitude 27°48' 30.1" N, longitude 82°23' 27.8" W.

U-002: An existing underground injection well system consisting of one Class V, Group 2 recharge well (SRWD-2) and two monitoring wells (SMWD-2 and SMWC-2) permitted under Department permit number 0359430-001-UC/5R (WACS ID 105056). U-002 is located at 6078 South 78th Street, Riverview, Florida 33578 and approximately at latitude 27°53' 27.75" N, longitude 82°22' 4.93" W.

U-003: A proposed underground injection well system consisting of one Class V, Group 2 recharge well (SRWD-3) and two monitoring wells (SMWD-3 and SMWC-3) permitted under Department permit number 0359435-002-UC/M5 (WACS ID 105057). U-003 is located at 11002 Ekker Road, Gibsonton, Florida 33534 and approximately at latitude 27°50' 26.69" N, longitude 82°21' 53.38" W.

U-004: An existing underground injection well system consisting of one Class V, Group 2 recharge well (SRWD-4) and two monitoring wells (SMWD-4 and SMWC-4) permitted under Department permit number 0359436-001-UC/5R (WACS ID 105058). U-004 is located at 6600 Covington Garden Drive, Apollo Beach, Florida 33572 and approximately at latitude 27°45' 47.23" N, longitude 82°22' 09.97" W.

U-005: An underground injection well system under construction consisting of one Class V, Group 2 recharge well (SRWD-5) and two monitoring wells (SMWD-5 and SMWC-5) permitted under Department permit number 0359437-002-UC/M5 (WACS ID 105059). U-005 is located Lori Dixon Road and 12th Street NE, Apollo Beach, Florida 33572 and approximately at latitude 27°44' 30.22" N, longitude 82°25' 07.82" W.

U-006: A proposed underground injection well system consisting of one Class V, Group 2 recharge well (SRWD-6) and two monitoring wells (SMWD-6 and SMWC-6) permitted under Department permit number 0359438-001-UC/5R (WACS ID 105060). U-006 is located at 230 Teco Road, Ruskin, Florida 33570 and approximately at latitude 27°43' 01.67" N, longitude 82°23' 03.97" W.

Land Application R-001: The South County Regional AWWTF serves as a source plant for up to 10.0 mgd AADF of reclaimed water, which is transferred to the South-Central Hillsborough County Master Reuse System (SCHCMRS) (R-001) at a transfer point located immediately downstream of the distribution flow meter at the source plant. The South-Central Hillsborough County Master Reuse System is a Part III slow rate public access land application system serving the southern and central portions of eastern Hillsborough County for use on residential lawns, golf courses, common areas, roadway medians and right of ways, the Valrico sprayfield, agriculture sites, and industrial reuse. The South-Central Hillsborough County Master Reuse System is located in

the service areas of the South County Regional AWWTF, the Falkenburg AWWTF and the Valrico AWWTF. The general reuse service area is illustrated on the map titled South Central Reclaimed Water Master Plan (2025), prepared by the Hillsborough County Public Utilities Department, updated in January 2019, Figure 1.1. The current capacity of the system including existing, proposed, and potential users is 25.4 mgd as an AADF.

Reclaimed water meeting Part III Public Access standards is provided by three existing separately permitted Hillsborough County Public Utilities Department operated wastewater treatment facilities as follows:

South County Regional AWWTF – FL0028061 – up to 10.0 mgd AADF

Falkenburg AWWTF – FL0040614 – up to 12.0 mgd AADF

Valrico AWWTF – FL0040983 – up to 12.0 mgd AADF

Effluent quality is continuously monitored at the source wastewater treatment plants for high level disinfection in accordance with each facility's approved operating protocol. For all source plants, the on-site and off-site storage is controlled, sequenced, and operated during staffed and unstaffed periods according to procedures set forth in an Operating Protocol established for each source plant in order to assure maximum reliability and to safeguard the quality of the reclaimed water.

Industrial Reuse R-002: An existing 4.0 MGD AADF permitted capacity industrial reuse system sending reclaimed water to R-002 Site - Tampa Electric Company. A 30-million-gallon storage pond is located at the Tampa Electric Big Bend Station. No process waters are returned to the reclaimed water system. R-002 is located about a half mile South of the outfall D-003 location at approximately latitude 27° 47' 42" N, longitude 82° 24' 13" W.

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

Operation of an existing 10.0 MGD AADF Type I, domestic advanced wastewater treatment facility, using the BBNR process and consisting of the following components: preliminary treatment consisting two channels with two perforated plate screens and a by-pass channel with a manual bar screen, two Pista type grit removal chambers, a mixing chamber and a flow splitter box, three grit pumps and two grit classifiers; a biological treatment process consisting of four trains, five stage BBNR process that includes four anaerobic basins, four first anoxic basins, four second anoxic basins, four aeration basins, four aerobic/anoxic basins, four post-anoxic basins and four re-aeration basins; a clarifier splitter box, four secondary clarifiers; RAS/WAS pump station; intermediate pump station; six deep bed dual media filters, and an UV disinfection system. The WAS system includes a 625,000-gallon holding tank, a polymer feed system and three biosolids dewatering centrifuges. Additional components of the WWTF include an effluent pump station, six high service pumps and a jockey; an odor control system, an external carbon source storage and feed system, Sodium Hypochlorite storage and feed system, Alum storage and feed system; reject storage capacity of 13 MG provided by two-2.0 MG, one-6.0 MG reject water storage tank and one-3 MG lined reject pond; two-6.0 MG reclaimed water storage tanks with a combined capacity of 12 MG; one-30 MG storage pond located at the Tampa Electric Big Bend Station; a remote de-chlorination/aeration facility. Two independent power feeds and three generators are maintained on-site for emergency backup.

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		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow to D-003	MGD	Max Max	10.0 Report	Annual Average Monthly Average	Continuous	Flow Meter	FLW-05	See I.A.4
Flow to D-003 (South County Contribution)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Calculation	FLW-18	
Flow to D-003 (Falkenburg Contribution)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Calculation	FLW-17	
Flow to D-006	MGD	Max Max	4.0 Report	Annual Average Monthly Average	Continuous	Flow Meter	FLW-08	See I.A.4
Flow to D-006 (South County Contribution)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Calculation	FLW-24	
Flow to D-006 (Falkenburg Contribution)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Calculation	FLW-23	
Total Flow to D-003 and D-006	MGD	Max Max	10.0 Report	Annual Average Monthly Average	Monthly	Calculation	FLW-09	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-01	See I.A.7

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Solids, Total Suspended	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-01	See I.A.7
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	5 Days/Week	Grab	EFB-01	
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-02	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Monthly Average Single Sample	5 Days/Week	24-hr FPC	EFD-02	
pH	s.u.	Min Max	6.5 8.5	Single Sample Single Sample	Continuous	Meter	EFA-01	See I.A.3
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Average	Monthly	Calculated	EFA-01	See I.A.6
Coliform, Fecal	#/100mL	Max	25	Single Sample	5 Days/Week	Grab	EFA-01	
Oxygen dissolved (DO)	mg/L	Min	4.1	Single Sample	Daily; 24 hours	Grab	EFA-01	See I.A.8
Enterococci	#/100mL	Max Max	35 276	Monthly Geometric Mean Single Sample	5/Month	Grab	EFD-02	See I.A.9
Mercury, Total Recoverable	ug/L	Max	0.025	Single Sample	Quarterly	Grab	EFD-02	

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFD-02	See I.A.10
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFD-02	See I.A.10
Nitrogen, Total (as N) – South County	ton/mth	Max	Report	Monthly Total	Monthly	Calculated	EFD-02	See I.A.11
Nitrogen, Total (as N) – South County	ton/yr	Max	Report	Annual Total	Monthly	Calculated	EFD-02	See I.A.11
Nitrogen, Total (as N) – South County	ton/yr	Max	Report	5 Year Average	Monthly	Calculated	EFD-02	See I.A.11
Turbidity	NTU	Max	Report	Single Sample	Continuous	Meter	EFB-01	See I.C.6 & 8
Before installation of the new disinfection system (Chlorination)								
Flowrate (Flow through the UV system)	GPM	Max	Report	Daily Maximum	Continuous	Flow Meter	FLW-06	
Ultraviolet Light Operational Dosage	mW-s/cm^2	Min	100	Single Sample	Continuous	Meter	PPI-01	See I.C.18
Ultraviolet Light Transmittance	percent	Min	Report	Single Sample	Continuous	Meter	PPI-01	See I.C.17
Ultraviolet Light Intensity	mW/cm^2	Min	Report	Single Sample	Continuous	Meter	PPI-01	See I.C.16
After installation of the new disinfection system (Hypochlorite disinfection)								
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-01	
Chlorine, Total Residual (For Dichlorination)	mg/L	Max	0.01	Single Sample	Daily; 24 hours	Grab	EFD-02	

PART I: Continued

Receiving Waters:	Classification (indicate whether fresh or marine):
Port Redwing Canal to Hillsborough Bay	Class III Marine Waters
The Kitchen to Hillsborough Bay	Class III Marine Waters

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

1. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-003 and D-006.

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

   b. Monitoring Frequency
   - **(1)** Routine toxicity tests shall be conducted once every three months, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.
   - **(2)** Upon completion of four consecutive valid routine tests that demonstrate compliance with the effluent limitation in I.A.10.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency to once every six months. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four consecutive valid routine tests that demonstrate compliance with the effluent limitation in I.A.10.a.(1) above.
   - **(3)** If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821-R-02-013 but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.

   c. Sampling Requirements
   - **(1)** For each routine test or additional follow-up test conducted, a total of three 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:
Florida Department of Environmental Protection

Southwest District Office

13051 N Telecom Pkwy, Suite 101,

Temple Terrace, Florida 33637-0926

swd_dw@dep.state.fl.us

g. Test Failures

(1) A test fails when the test results do not meet the limits in I.A.10.a.(1).

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the chronic toxicity limitation in I.A.10.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.10.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 I.A.10.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in I.A.10.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.10.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 I.A.10.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.

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:

Facility ID	Monitor	Date	Monitoring	Parameter	Description	Result	Limit	Units	Statistical Base
FL0028061	MWC-01	12/31/2023	MWC-01	P 00620	Nitrogen, Nitrate, Total (as N)	13.5	10	mg/L	MB - Maximum
FL0028061	MWC-01	12/31/2023	MWC-01	P 00400	pH	4.8	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-02	12/31/2023	MWC-02	P 00400	pH	4.8	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-03	12/31/2023	MWC-03	P 00400	pH	5.8	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-04	12/31/2023	MWC-04	P 74055	Coliform, Fecal	38	4	#/100 mL	MB - Maximum
FL0028061	MWC-07	12/31/2023	MWC-07	P 00400	pH	6.3	6.5-8.5	s.u.	RG - RANGE
FL0028061	R-001	7/31/2023	EFA-01	P 51005	Coliform, Fecal, % less than detection	51.6	75	percent	TM - Minimum Total Monthly
FL0028061	R-001	7/31/2023	EFA-01	P 74055	Coliform, Fecal	921	25	#/100 mL	MB - Maximum
FL0028061	R-002	7/31/2023	EFA-01	P 74055	Coliform, Fecal	921	800	#/100 mL	MB - Maximum
FL0028061	MWC-02	6/30/2023	MWC-02	P 00400	pH	5.1	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-03	6/30/2023	MWC-03	P 00400	pH	6.04	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-07	6/30/2023	MWC-07	P 70295	Solids, Total Dissolved (TDS)	620	500	mg/L	MB - Maximum
FL0028061	R-001	4/30/2023	EFB-01	P 00530	Solids, Total Suspended	6	5	mg/L	MB - Maximum
FL0028061	D-003	1/31/2023	EFD-02	P TRP3B	IC25 Statre 7 day Chr Ceriodaphnia	49.8	100	percent	ME- _ Minimum
FL0028061	MWC-01	12/31/2022	MWC-01	P 00620	Nitrogen, Nitrate, Total (as N)	17.2	10	mg/L	MB - Maximum
FL0028061	MWC-01	12/31/2022	MWC-01	P 00400	pH	4.9	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-02	12/31/2022	MWC-02	P 00400	pH	5.1	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-03	12/31/2022	MWC-03	P 00400	pH	6	6.5-8.5	s.u.	RG - RANGE
FL0028061	MWC-04	12/31/2022	MWC-04	P 70295	Solids, Total Dissolved (TDS)	503	500	mg/L	MB - Maximum
FL0028061	MWC-04	12/31/2022	MWC-04	P 74055	Coliform, Fecal	23	4	#/100 mL	MB - Maximum
FL0028061	MWC-07	12/31/2022	MWC-07	P 70295	Solids, Total Dissolved (TDS)	648	500	mg/L	MB - Maximum
FL0028061	MWC-07	12/31/2022	MWC-07	P 00400	pH	6.4	6.4	s.u.	RG - RANGE

Describe previous FYI and WQBEL study: N/A
Describe previous or current Enforcement Actions (including WLs): Most recent warning letter was in November 2021 for an SSO of 50,000 gallons and was closed December 2021.
Describe any violations or problems noted in previous inspection: In the most previous inspection report from 10/14/2022, there were deficiencies for effluent quality exceedances and SSOs. The effluent exceedances were for Flow, Fecal Coliform, Enterococci, and total Nitrogen. The facility had 37 spills, 32 of which were less than 1,00 gallons and five of which were 1,000 gallons or greater. Out of the 39 SSOs, 2 SSOs went into surface waters.
Discuss whether DMR trends within previous five years are improving or declining: DMR trends seem stable.
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse): N/A

Appendix B. Explanations of Measurements

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

- **Chemical Analyses of the Effluent**

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

- **Toxicity Bioassays**

  Greater than 50% mortality in an acute toxicity test may constitute an exceedance of Paragraph 62-302.500(1)(a) and/or facility permit limits. A 25% inhibition concentration (IC25) is the effluent concentration causing a 25% reduction in a biological response such as biomass or reproduction when compared to a control population. An IC25 of less than 100% in a chronic test may constitute exceedances of Subsection 62-302.530(20), Subsection 62-302.530(62) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of Subsection 62-302.530(62) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

- **Bacteriological Testing**

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

- **Algal Growth Potential (AGP)**

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

  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of ± 20%. When the ratio of nitrogen to phosphorus (N: P) is less than 10:1, nitrogen limitation of algal production is likely. When the N: P ratio is 20:1 or greater,

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

- **Chlorophyll *a* Content**

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

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

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

Appendix C. Chain of Custody

Request Number: RQ-2024-01-29-37

FYI3 South County Regional AWWTP (FL0028061)

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: Lauren Ballard

Collected By: Emmalise Hunter, Lauren Ballard, Emily Larson

Sampling Agency: SWD-FDEP

Location: South County AWWTP	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2/12/24 Time 9:25am Eastern Central			Composite end Date Time			Bottle Group(s) (See pg 2): A
Field ID: EFD-02	Matrix (type, e.g., Salt, Fresh, etc): Fresh		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: South County AWWTP	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 2/11/24 Time 8:00am Eastern Central			Composite end Date 2/12/24 Time 8:00am			Bottle Group(s): B
Field ID: EFD-02	Matrix (type, e.g., Salt, Fresh, etc): Fresh		Diss. Oxygen 8.60 (105.3) ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C) 25.4	pH 7.54	Sample Depth Point of discharge ☐ ft ☐ m	Sp. Conductance (umho/cm) 1902				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.66	Comments					
Location: Field Blanks	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2/12/24 Time 9:46am Eastern Central			Composite end Date Time			Bottle Group(s): C
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments					
Location: (	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central			Composite end Date Time			Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments					

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Emmalise Hunter	2/12/24 1:20pm	FEDEX	4		2·13·24 08:50

02.13.24 0905

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 & annalise.c.hunter@FloridaDEP.gov

Invoice to: FDEP Micro Overflow

PO#_____

Project Name South County AWWTP 2Q-2024-01-29-37

Laboratory Submission # 24020610

Sample Name	Sample Type[1] / Sample Matrix[2]	Collection		Container			Preservative[4]	Parameters for Analysis	Laboratory Sample #
		Date	Time	Qty	Capacity	Type[3]			
South County EFD-02FC		2/12/24	9:25am	1		P		Fecal Coliform	1
South County EFD-02 ecoli		2/12/24	9:25am	1		P		Enterococci & E. Coli	2
South County EFD-02 ecoli		2/12/24	9:25am	1		P		Enterococci	3

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. Micro bottles are pre-preserved at manufacturing stage. 40mL vials are pre-preserved at manufacturing stage.

Instructions:

1. Each bottle has a label identifying sample ID, premeasured 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 unless otherwise noted.

Laboratory Sample Acceptability:

pH <2 : ☐ BEA Temperature:
BEAS Temperature:

	Collected / Relinquished By & Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time
1	Annalise Hunter SWDADEP	2/12/24	10:38	Nathan Hadsell	2-12-24	1038
2	Relinquished By& Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time

670 – 34657

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: Noel Savoie
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 1/11/2024
Means of Contact: Email

Task Assignment Number: OV515 Maximum Cost: **$41.50** Turnaround Time: 5 BD

Sample Delivery Date: 2/13/2024

Project Name/Description:
RQ-2024-01-29-37; FY13 South County Regional AWWTP (FL0028061)

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**

QC Instructions:

Comments: Quote #

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

Delivery Method: _____Shipping_____

Samples Accepted by: Orlando Date/Time 2/13/2024 0920 ~~0929~~

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

400 – 251388

640 Tallahassee

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: 2/19/2024
Means of Contact: Email

Task Assignment Number: OV529 Maximum Cost: **$145.00** Turnaround Time: 10 BD

Sample Delivery Date: 2/19/2024

Project Name/Description:
RQ-2024-01-29-37;SW-DIST-2024-02-13-01;FY13 South County Regional AWWTP (FL0028061);ILH-2024-02-13-30

Deliverable Number/ Parameter Group/ Method	**Sample Matrix**	**# of Samples**	**# of Containers**	**DEP ID #**	**Unit Cost**	**% Mark-up (if any)**	**Cost**
65/mercury, Low Level ~~(LL CVAFS)~~1631E 65/1631	W	2	8 vials	2468493, 2468494	~~$70.00~~ 105		~~$140.00~~ 210
217/Sample Disposal Fee:	2				$2.50		$5.00
Total Number of Containers Shipped:		8				**Total:**	~~$145.00~~ 215

QC Instructions:

Comments:

Samples released to Contract Lab by: _____ Date/Time: 2/19/2024 1505

Delivery Method: ____HD____

Samples Accepted by: _____ Date/Time 2.19.24 1505
Rel'q 2.19.24 1600

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

Rec by: BP 2/20/24 838 1.0°C IR8

Appendix D. Chemical Analysis of Effluent

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 8:00	Effluent Composite	Overflow	Carbonaceous Biochemical Oxygen Demand	2.4 U	mg/L	2.4	2.4
2/12/2024 8:00	Effluent Composite	Nutrients	Total-P	0.17	mg P/L	0.010	0.050
2/12/2024 8:00	Effluent Composite	Nutrients	Organic Carbon	7.1	mg C/L	0.50	1.0
2/12/2024 8:00	Effluent Composite	Nutrients	Ammonia-N	0.022	mg N/L	0.0020	0.0050
2/12/2024 8:00	Effluent Composite	Nutrients	NO2NO3-N	0.52	mg N/L	0.0040	0.010
2/12/2024 8:00	Effluent Composite	Nutrients	Kjeldahl Nitrogen	0.87	mg N/L	0.080	0.20
2/12/2024 8:00	Effluent Composite	Nutrients	TSS	2 U	mg/L	2.0	10
2/12/2024 8:00	Effluent Composite	Nutrients	Dissolved Oxygen %Sat	105.3	%Sat	-	-
2/12/2024 8:00	Effluent Composite	Nutrients	Specific Conductance	1,902	µmhos/cm	-	-
2/12/2024 8:00	Effluent Composite	Nutrients	Temperature	25.4	C	-	-
2/12/2024 8:00	Effluent Composite	Nutrients	pH	7.54	SU	-	-
2/12/2024 9:25	Effluent Grab	AGP/LN	Algal Growth Potential	2.10 A	mg DryWt/L	0.300	0.900
2/12/2024 9:25	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.82 U	µg/L	0.82	2.5
2/12/2024 9:25	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	0.60 U	µg/L	0.60	1.8
2/12/2024 9:25	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 U	µg/L	0.90	2.7
2/12/2024 9:25	Effluent Grab	Overflow	Escherichia Coli-Quanti-Tray	10 U	MPN/100 mL	10	10
2/12/2024 9:25	Effluent Grab	Overflow	Enterococci-Quanti-Tray	10 U	MPN/100 mL	10	10
2/12/2024 9:25	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	10 U	cfu/100 mL	10	10
2/12/2024 9:25	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50	-	-
2/12/2024 9:25	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50	-	-
2/12/2024 9:25	Effluent Grab	Metals	Calcium	68.8	mg/L	0.075	0.30
2/12/2024 9:25	Effluent Grab	Metals	Zinc	21	µg/L	5.0	20
2/12/2024 9:25	Effluent Grab	Metals	Nickel	1.8 I	µg/L	0.50	2.0
2/12/2024 9:25	Effluent Grab	Metals	Copper	0.40 U	µg/L	0.40	0.80
2/12/2024 9:25	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
2/12/2024 9:25	Effluent Grab	Metals	Iron	30 U	µg/L	30	120
2/12/2024 9:25	Effluent Grab	Metals	Potassium	48.1	mg/L	1.5	6.0
2/12/2024 9:25	Effluent Grab	Metals	Sodium	113	mg/L	0.50	2.0
2/12/2024 9:25	Effluent Grab	Metals	Arsenic	0.42	µg/L	0.050	0.20
2/12/2024 9:25	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
2/12/2024 9:25	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:25	Effluent Grab	Metals	Magnesium	37.4	mg/L	0.040	0.16
2/12/2024 9:25	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
2/12/2024 9:25	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
2/12/2024 9:25	Effluent Grab	Metals	Aluminum	12 I	µg/L	5.0	20
2/12/2024 9:25	Effluent Grab	Nutrients	Total Alkalinity	254	mg CaCO3/L	0.65	2.5
2/12/2024 9:25	Effluent Grab	Nutrients	Organic Carbon	6.5	mg C/L	0.50	1.0
2/12/2024 9:25	Effluent Grab	Nutrients	TSS	2 U	mg/L	2.0	10
2/12/2024 9:25	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.76	mg N/L	0.080	0.20
2/12/2024 9:25	Effluent Grab	Nutrients	Chloride	160	mg Cl/L	2.0	5.0
2/12/2024 9:25	Effluent Grab	Nutrients	Total-P	0.18	mg P/L	0.010	0.050
2/12/2024 9:25	Effluent Grab	Nutrients	O-Phosphate-P	0.11	mg P/L	0.0040	0.010
2/12/2024 9:25	Effluent Grab	Nutrients	NO2NO3-N	0.43	mg N/L	0.0040	0.010
2/12/2024 9:25	Effluent Grab	Nutrients	Sulfate	180	mg SO4/L	2.0	5.0
2/12/2024 9:25	Effluent Grab	Nutrients	Ammonia-N	0.020	mg N/L	0.0020	0.0050
2/12/2024 9:25	Effluent Grab	Nutrients	Turbidity	0.50 I	NTU	0.10	1.0
2/12/2024 9:25	Effluent Grab	Nutrients	Color (true)	26 A	PCU	2.5	6.0
2/12/2024 9:25	Effluent Grab	Nutrients	Fluoride	0.76	mg F/L	0.025	0.10
2/12/2024 9:25	Effluent Grab	Overflow	Mercury	0.21 I	ng/L	0.20	0.50
2/12/2024 9:25	Effluent Grab	Pesticides	Fipronil	19	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Loratadine	2.0	ng/L	0.34	1.7
2/12/2024 9:25	Effluent Grab	Pesticides	Malathion	0.40 U	ng/L	0.40	2.0
2/12/2024 9:25	Effluent Grab	Pesticides	Molinate	0.28 U	ng/L	0.28	1.4
2/12/2024 9:25	Effluent Grab	Pesticides	Propiconazole	2.3 I	ng/L	0.68	3.4
2/12/2024 9:25	Effluent Grab	Pesticides	Simazine	18	ng/L	0.28	1.4
2/12/2024 9:25	Effluent Grab	Pesticides	Butylate	0.51 U	ng/L	0.51	2.5
2/12/2024 9:25	Effluent Grab	Pesticides	Chlorfenapyr	0.34 U	ng/L	0.34	1.7
2/12/2024 9:25	Effluent Grab	Pesticides	Dimethenamid	0.11 U	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Dimethomorph	0.34 U	ng/L	0.34	1.7
2/12/2024 9:25	Effluent Grab	Pesticides	Atrazine	81	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Atrazine Desethyl	1.5 U	ng/L	1.5	7.3
2/12/2024 9:25	Effluent Grab	Pesticides	Azinphos Methyl	3.4 U	ng/L	3.4	17
2/12/2024 9:25	Effluent Grab	Pesticides	Imazalil	0.73 U	ng/L	0.73	3.7
2/12/2024 9:25	Effluent Grab	Pesticides	Mevinphos	1.1 U	ng/L	1.1	5.6
2/12/2024 9:25	Effluent Grab	Pesticides	Parathion Ethyl	0.17 U	ng/L	0.17	0.85

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:25	Effluent Grab	Pesticides	Phenytoin	6.0 U	ng/L	6.0	30
2/12/2024 9:25	Effluent Grab	Pesticides	Pyridaben	1.6 U	ng/L	1.6	7.9
2/12/2024 9:25	Effluent Grab	Pesticides	Triadimefon	0.17 U	ng/L	0.17	0.85
2/12/2024 9:25	Effluent Grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
2/12/2024 9:25	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.34 U	ng/L	0.34	1.7
2/12/2024 9:25	Effluent Grab	Pesticides	Cyanazine	5.6 U	ng/L	5.6	28
2/12/2024 9:25	Effluent Grab	Pesticides	Cyprodinil	1.8	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.11 U	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Flumioxazin	3.4 U	ng/L	3.4	17
2/12/2024 9:25	Effluent Grab	Pesticides	Myclobutanil	0.40 U	ng/L	0.40	2.0
2/12/2024 9:25	Effluent Grab	Pesticides	Phorate	0.28 U	ng/L	0.28	1.4
2/12/2024 9:25	Effluent Grab	Pesticides	Prometryn	0.40 U	ng/L	0.40	2.0
2/12/2024 9:25	Effluent Grab	Pesticides	Pyraflufen Ethyl	0.34 U	ng/L	0.34	1.7
2/12/2024 9:25	Effluent Grab	Pesticides	Sucralose	100	µg/L	0.10	0.40
2/12/2024 9:25	Effluent Grab	Pesticides	Bromacil	0.68 U	ng/L	0.68	3.4
2/12/2024 9:25	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.11 U	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Flutolanil	0.11 U	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Alachlor	0.45 U	ng/L	0.45	2.3
2/12/2024 9:25	Effluent Grab	Pesticides	Fluxapyroxad	0.28 U	ng/L	0.28	1.4
2/12/2024 9:25	Effluent Grab	Pesticides	Hexazinone	0.56 U	ng/L	0.56	2.8
2/12/2024 9:25	Effluent Grab	Pesticides	Oxadiazon	0.40 U	ng/L	0.40	2.0
2/12/2024 9:25	Effluent Grab	Pesticides	Prodiamine	0.24 I	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
2/12/2024 9:25	Effluent Grab	Pesticides	Fenamiphos	0.51 U	ng/L	0.51	2.5
2/12/2024 9:25	Effluent Grab	Pesticides	Ametryn	1.2 U	ng/L	1.2	6.2
2/12/2024 9:25	Effluent Grab	Pesticides	Iprodione	0.56 U	ng/L	0.56	2.8
2/12/2024 9:25	Effluent Grab	Pesticides	Naled	2.8 U	ng/L	2.8	14
2/12/2024 9:25	Effluent Grab	Pesticides	Napropamide	0.79 U	ng/L	0.79	4.0
2/12/2024 9:25	Effluent Grab	Pesticides	Parathion Methyl	0.23 U	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Prometon	3.4 U	ng/L	3.4	17
2/12/2024 9:25	Effluent Grab	Pesticides	Propanil	0.11 UJ	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Pyriproxyfen	0.28 U	ng/L	0.28	1.8
2/12/2024 9:25	Effluent Grab	Pesticides	Thiobencarb	0.56 U	ng/L	0.56	2.8
2/12/2024 9:25	Effluent Grab	Pesticides	Caffeine	26 I	ng/L	8.5	42

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:25	Effluent Grab	Pesticides	Disulfoton	0.68 U	ng/L	0.68	3.4
2/12/2024 9:25	Effluent Grab	Pesticides	Dithiopyr	1.1 UJ	ng/L	1.1	5.6
2/12/2024 9:25	Effluent Grab	Pesticides	Ethion	0.34 U	ng/L	0.34	1.7
2/12/2024 9:25	Effluent Grab	Pesticides	Ethoprop	0.14 U	ng/L	0.14	0.71
2/12/2024 9:25	Effluent Grab	Pesticides	Fludioxonil	8.3	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Acetochlor	0.23 U	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Metalaxyl	0.56 U	ng/L	0.56	2.8
2/12/2024 9:25	Effluent Grab	Pesticides	Metribuzin	0.92 I	ng/L	0.45	2.3
2/12/2024 9:25	Effluent Grab	Pesticides	Norflurazon	1.1 U	ng/L	1.1	5.6
2/12/2024 9:25	Effluent Grab	Pesticides	Oxyfluorfen	0.23 U	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Pendimethalin	1.9 U	ng/L	1.9	9.6
2/12/2024 9:25	Effluent Grab	Pesticides	Propargite	0.90 U	ng/L	0.90	4.5
2/12/2024 9:25	Effluent Grab	Pesticides	Sulfentrazone	8.2	ng/L	1.6	7.9
2/12/2024 9:25	Effluent Grab	Pesticides	Tebuconazole	6.8 I	ng/L	1.6	7.9
2/12/2024 9:25	Effluent Grab	Pesticides	Azoxystrobin	6.2 J	ng/L	0.45	2.3
2/12/2024 9:25	Effluent Grab	Pesticides	Fipronil Desulfinyl	8.1	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Fipronil Sulfide	2.8	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Fonofos	0.17 U	ng/L	0.17	0.85
2/12/2024 9:25	Effluent Grab	Pesticides	Metolachlor	2.0 I	ng/L	0.85	4.2
2/12/2024 9:25	Effluent Grab	Pesticides	Stirophos	0.45 U	ng/L	0.45	3.6
2/12/2024 9:25	Effluent Grab	Pesticides	Terbufos	0.23 U	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Terbuthylazine	0.23 U	ng/L	0.23	1.1
2/12/2024 9:25	Effluent Grab	Pesticides	Diazinon	0.14 U	ng/L	0.14	0.71
2/12/2024 9:25	Effluent Grab	Pesticides	EPTC	0.56 U	ng/L	0.56	2.8
2/12/2024 9:25	Effluent Grab	Pesticides	Etridiazole	0.11 U	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Fipronil Sulfone	2.7	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Pronamide	0.11 U	ng/L	0.11	0.56
2/12/2024 9:25	Effluent Grab	Pesticides	Carbophenothion	0.56 U	ng/L	0.56	2.8
2/12/2024 9:25	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.17 U	ng/L	0.17	0.85
2/12/2024 9:25	Effluent Grab	Pesticides	Coumaphos	1.2 U	ng/L	1.2	6.2
2/12/2024 9:25	Effluent Grab	Pesticides	Demeton	4.0 U	ng/L	4.0	20
2/12/2024 9:25	Effluent Grab	Pesticides	Difenoconazole	0.68 U	ng/L	0.68	3.4
2/12/2024 9:25	Effluent Grab	Pesticides	Fenbuconazole	0.56 U	ng/L	0.56	2.8
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.053 U	µg/L	0.053	0.21

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	11 U	µg/L	11	43
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.53 U	µg/L	0.53	2.1
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	11 U	µg/L	11	43
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.21 U	µg/L	0.21	0.85
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	µg/L	2.1	8.5
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.11 U	µg/L	0.11	0.43
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 U	µg/L	11	43
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.5
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	µg/L	1.1	4.3
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Isophorone	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Benzidine	11 U	µg/L	11	43
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.027 U	µg/L	0.027	0.11

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.11 U	µg/L	0.11	0.43
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Anthracene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.3 U	µg/L	5.3	21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.5
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Phenol	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Pyrene	0.11 U	µg/L	0.11	0.43
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.2 U	µg/L	3.2	13
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.053 U	µg/L	0.053	0.21
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Fluorene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Chrysene	0.027 U	µg/L	0.027	0.11
2/12/2024 9:25	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.053 U	µg/L	0.053	0.21
2/12/2024 9:46	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
2/12/2024 9:46	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
2/12/2024 9:46	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
2/12/2024 9:46	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
2/12/2024 9:46	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
2/12/2024 9:46	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
2/12/2024 9:46	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
2/12/2024 9:46	Field Blank	Metals	Iron	30 U	µg/L	30	120
2/12/2024 9:46	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
2/12/2024 9:46	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
2/12/2024 9:46	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
2/12/2024 9:46	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
2/12/2024 9:46	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
2/12/2024 9:46	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
2/12/2024 9:46	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
2/12/2024 9:46	Field Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
2/12/2024 9:46	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:46	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
2/12/2024 9:46	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
2/12/2024 9:46	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
2/12/2024 9:46	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
2/12/2024 9:46	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
2/12/2024 9:46	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
2/12/2024 9:46	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
2/12/2024 9:46	Field Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
2/12/2024 9:46	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
2/12/2024 9:46	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
2/12/2024 9:46	Field Blank	Overflow	Mercury	0.20 U	ng/L	0.20	0.50
2/12/2024 9:46	Field Blank	Pesticides	Butylate	0.48 U	ng/L	0.48	2.4
2/12/2024 9:46	Field Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.66
2/12/2024 9:46	Field Blank	Pesticides	Dimethomorph	0.32 U	ng/L	0.32	1.6
2/12/2024 9:46	Field Blank	Pesticides	Fluazifop-P-butyl	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Iprodione	0.53 U	ng/L	0.53	2.6
2/12/2024 9:46	Field Blank	Pesticides	Loratadine	0.32 U	ng/L	0.32	1.6
2/12/2024 9:46	Field Blank	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Coumaphos	1.1 U	ng/L	1.1	5.8
2/12/2024 9:46	Field Blank	Pesticides	Napropamide	0.74 U	ng/L	0.74	3.7
2/12/2024 9:46	Field Blank	Pesticides	Norflurazon	1.1 U	ng/L	1.1	5.3
2/12/2024 9:46	Field Blank	Pesticides	Parathion Ethyl	0.16 U	ng/L	0.16	0.79
2/12/2024 9:46	Field Blank	Pesticides	Pendimethalin	1.8 U	ng/L	1.8	9.0
2/12/2024 9:46	Field Blank	Pesticides	Carfentrazone Ethyl	0.16 U	ng/L	0.16	0.79
2/12/2024 9:46	Field Blank	Pesticides	Disulfoton	0.63 U	ng/L	0.63	3.2
2/12/2024 9:46	Field Blank	Pesticides	Dithiopyr	1.1 UJ	ng/L	1.1	5.3
2/12/2024 9:46	Field Blank	Pesticides	Fipronil Sulfone	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Flumioxazin	3.2 U	ng/L	3.2	16
2/12/2024 9:46	Field Blank	Pesticides	Mevinphos	1.1 U	ng/L	1.1	5.3
2/12/2024 9:46	Field Blank	Pesticides	Naled	2.6 U	ng/L	2.6	13
2/12/2024 9:46	Field Blank	Pesticides	Oxadiazon	0.37 U	ng/L	0.37	1.8
2/12/2024 9:46	Field Blank	Pesticides	Terbufos	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Triadimefon	0.16 U	ng/L	0.16	0.79
2/12/2024 9:46	Field Blank	Pesticides	Sucralose	0.010 U	µg/L	0.010	0.040

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:46	Field Blank	Pesticides	Atrazine	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Chlorpyrifos Methyl	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	EPTC	0.53 U	ng/L	0.53	2.6
2/12/2024 9:46	Field Blank	Pesticides	Ethion	0.32 U	ng/L	0.32	1.6
2/12/2024 9:46	Field Blank	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
2/12/2024 9:46	Field Blank	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
2/12/2024 9:46	Field Blank	Pesticides	Prometryn	0.37 U	ng/L	0.37	1.8
2/12/2024 9:46	Field Blank	Pesticides	Pyridaben	1.5 U	ng/L	1.5	7.4
2/12/2024 9:46	Field Blank	Pesticides	Tebuconazole	1.5 U	ng/L	1.5	7.4
2/12/2024 9:46	Field Blank	Pesticides	Thiobencarb	0.53 U	ng/L	0.53	2.6
2/12/2024 9:46	Field Blank	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
2/12/2024 9:46	Field Blank	Pesticides	Azoxystrobin	0.42 U	ng/L	0.42	2.1
2/12/2024 9:46	Field Blank	Pesticides	Bromacil	0.63 U	ng/L	0.63	3.2
2/12/2024 9:46	Field Blank	Pesticides	Chlorfenapyr	0.32 U	ng/L	0.32	1.6
2/12/2024 9:46	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.32 U	ng/L	0.32	1.6
2/12/2024 9:46	Field Blank	Pesticides	Fenamiphos	0.48 U	ng/L	0.48	2.4
2/12/2024 9:46	Field Blank	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Metolachlor	0.79 U	ng/L	0.79	4.0
2/12/2024 9:46	Field Blank	Pesticides	Metribuzin	0.42 U	ng/L	0.42	2.1
2/12/2024 9:46	Field Blank	Pesticides	Myclobutanil	0.37 U	ng/L	0.37	1.8
2/12/2024 9:46	Field Blank	Pesticides	Parathion Methyl	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Phenytoin	5.6 U	ng/L	5.6	28
2/12/2024 9:46	Field Blank	Pesticides	Propiconazole	0.63 U	ng/L	0.63	3.2
2/12/2024 9:46	Field Blank	Pesticides	Pyraflufen Ethyl	0.32 U	ng/L	0.32	1.6
2/12/2024 9:46	Field Blank	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.7
2/12/2024 9:46	Field Blank	Pesticides	Stirophos	0.42 U	ng/L	0.42	3.4
2/12/2024 9:46	Field Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
2/12/2024 9:46	Field Blank	Pesticides	Alachlor	0.42 U	ng/L	0.42	2.1
2/12/2024 9:46	Field Blank	Pesticides	Azinphos Methyl	3.2 U	ng/L	3.2	16
2/12/2024 9:46	Field Blank	Pesticides	Caffeine	8.2 UQ	ng/L	8.2	41
2/12/2024 9:46	Field Blank	Pesticides	Difenoconazole	0.63 U	ng/L	0.63	3.2
2/12/2024 9:46	Field Blank	Pesticides	Fenbuconazole	0.53 U	ng/L	0.53	2.6
2/12/2024 9:46	Field Blank	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:46	Field Blank	Pesticides	Hexazinone	0.53 U	ng/L	0.53	2.6
2/12/2024 9:46	Field Blank	Pesticides	Pronamide	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
2/12/2024 9:46	Field Blank	Pesticides	Atrazine Desethyl	1.4 U	ng/L	1.4	6.9
2/12/2024 9:46	Field Blank	Pesticides	Dimethenamid	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Etridiazole	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Fipronil Desulfinyl	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Fipronil Sulfide	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Fludioxonil	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Fonofos	0.16 U	ng/L	0.16	0.79
2/12/2024 9:46	Field Blank	Pesticides	Imazalil	0.69 U	ng/L	0.69	3.4
2/12/2024 9:46	Field Blank	Pesticides	Malathion	0.37 U	ng/L	0.37	1.8
2/12/2024 9:46	Field Blank	Pesticides	Metalaxyl	0.53 U	ng/L	0.53	2.6
2/12/2024 9:46	Field Blank	Pesticides	Prometon	3.2 U	ng/L	3.2	16
2/12/2024 9:46	Field Blank	Pesticides	Propanil	0.11 UJ	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Sulfentrazone	1.5 U	ng/L	1.5	7.4
2/12/2024 9:46	Field Blank	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Ametryn	1.2 U	ng/L	1.2	5.8
2/12/2024 9:46	Field Blank	Pesticides	Carbophenothion	0.53 U	ng/L	0.53	2.6
2/12/2024 9:46	Field Blank	Pesticides	Cyanazine	5.3 U	ng/L	5.3	26
2/12/2024 9:46	Field Blank	Pesticides	Cyprodinil	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Demeton	3.7 U	ng/L	3.7	18
2/12/2024 9:46	Field Blank	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.66
2/12/2024 9:46	Field Blank	Pesticides	Flutolanil	0.11 U	ng/L	0.11	0.53
2/12/2024 9:46	Field Blank	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.1
2/12/2024 9:46	Field Blank	Pesticides	Propargite	0.85 U	ng/L	0.85	4.2
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.42
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.49 I	µg/L	0.21	0.83
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	µg/L	2.1	8.3
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Anthracene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	µg/L	10	42
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	42
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.2 U	µg/L	5.2	21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.42
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.3
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Isophorone	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.42
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.52 U	µg/L	0.52	2.1
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Phenol	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.052 U	µg/L	0.052	0.21

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	42
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.2
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Fluoranthene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	42
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.3
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.052 U	µg/L	0.052	0.21
2/12/2024 9:46	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.052 U	µg/L	0.052	0.21