Effluent Quality Assessment of Cocoa/Jerry Sellers Water Reclamation Facility Brevard County NPDES #FL0021521 Sampled June 8, 2020

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

All measured analytes complied with effluent permit limits and/or Class III Marine Water Quality Criteria (62-302.530, F.A.C.). The effluent samples were not toxic to either toxicity test organism during the acute definitive bioassay. The nitrogen to phosphorus ratio suggests that the effluent is nitrogen limited. Ten measured organic constituents were detected in the Effluent.

Facility Overview

The Cocoa/Jerry Sellers Wastewater Reclamation Facility (WRF) is a Domestic Wastewater 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 discharge into Indian River Lagoon, a Class III Marine Water, is rainfall dependent (Figure1).

The Indian River Lagoon receiving waters fall within the North Indian River Lagoon Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria (NNC). For this portion of the estuary, the NNC for chlorophyll *a* (expressed as annual geometric mean) is 6.4 µg/L (62-302.532). Total maximum daily loads (TMDL, expressed as annual load) have been established in the North Indian River Lagoon for total nitrogen and total phosphorous, 147,524 lb/year and 11,845 lb/year, respectively (62-304.520(5). The wasteload allocation granted to Cocoa Water Reclamation Facility is 5,556 lb/year of total nitrogen and 1,423 lb/year of total phosphorus. This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent samples were taken as grab samples from monitoring site location EFA-01 (after the chlorine contact chamber) at 8:33 a.m. on 6/8/2020. The effluent turbidity grab sample was collected from EFB-1 (after filtration and before chlorination). Some permit limits apply to the final effluent at EFD-01, but the facility was not discharging at the time of this sampling event and final effluent samples were unable to be collected. EFD-01 permit limits are included in the table as the toxicity bioassay limits apply to that monitoring location and is for informational purposes. Samples were collected by Central District staff, Phil Kane and Anthony LaFon. Some samples for toxicological analysis were received with damaged lids. Several samples received for chemistry analysis were received outside the acceptable temperature range and the data were qualified. The carbonaceous biological oxygen demand (CBOD) effluent grab sample was collected one hour later (9:37 a.m.) than all other effluent grab samples to meet the earliest acceptable collection time (9:30 a.m.) per Eurofins Test America, Tampa, Florida, where the test was analyzed. Fecal coliforms and *Escherichia coli* effluent grab samples were collected 30 minutes later (9:00 a.m.) than all other effluent grab samples and were analyzed by Flowers Laboratories, Orlando, Florida.

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.

All references to 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.

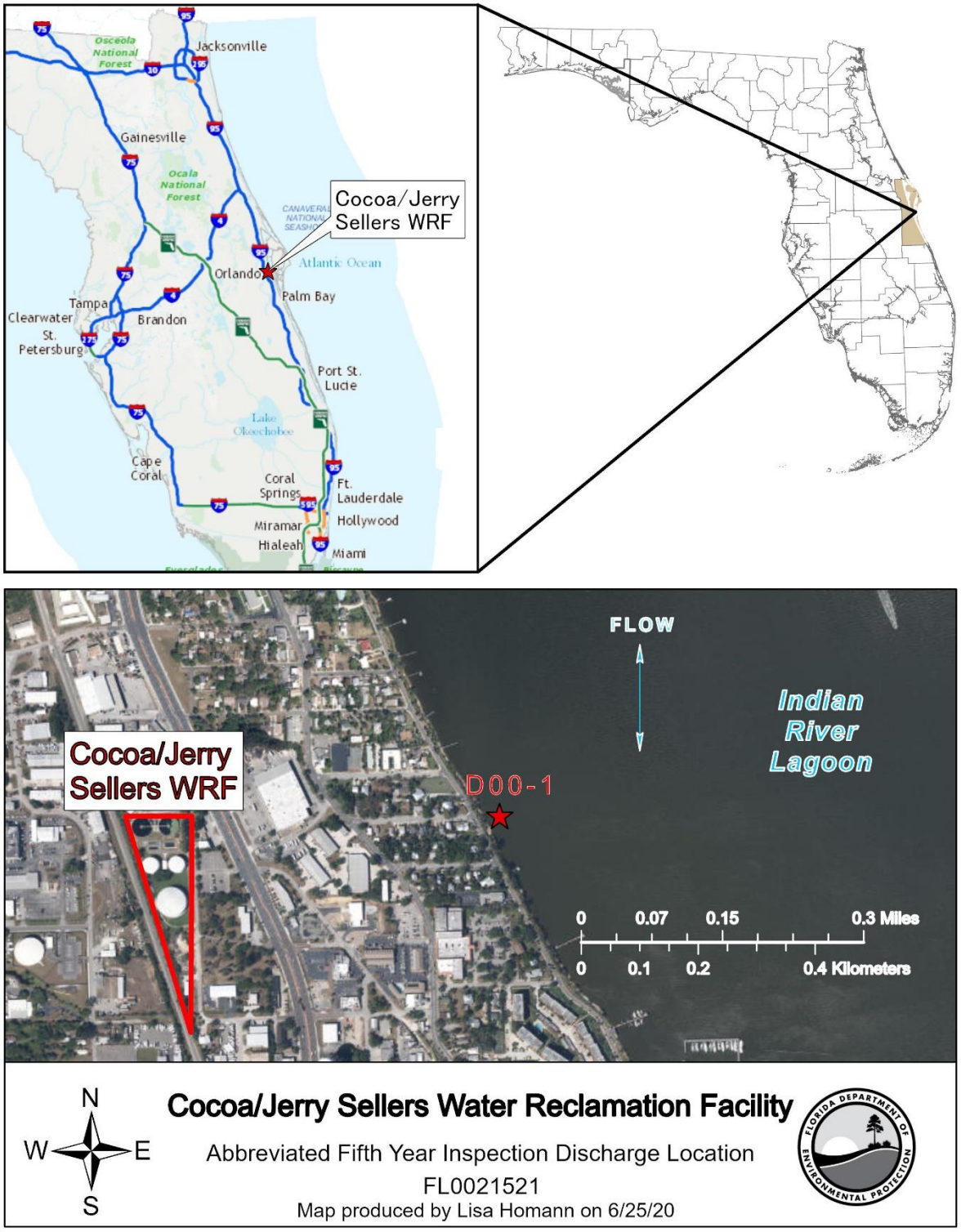


Figure 1. Map of Facility and Discharge Location

Results

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

- Measured effluent pH complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.) and effluent permit limits. Measured chlorinated effluent total residual chlorine complied with the permit limit for disinfection. Flow, dissolved oxygen, specific conductance, and temperature were not measured or recorded.

Analytical Water Chemistry (See Table 2 and Appendix D)

- All analytes complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.). and effluent permit limits.

- Total phosphorous was detected in the field blank.

- Total suspended solids were required by the permit to be reported but the analytical test was not scheduled for this event.

Microbiology (See Table 2 and Appendices D and E)

- Fecal coliform and *Escherichia coli* were not detected in the effluent grab sample.

Toxicity Whole Effluent Test (See Table 2)

- Acute definitive tests were performed June 9, 2020 through June 13, 2020.

- For the 96-hour acute definitive test, the calculated LC50 for the water flea, *Ceriodaphnia dubia*, was >100% effluent with 0% mortality in 100% sample. The calculated LC50 for the fish, *Cyprinella leedsi*, was >100% effluent with 0% mortality in 100% sample. The effluent sample was not toxic to the fish, *Cyprinella leedsi*, or to the water flea, *Ceriodaphnia dubia*, 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 were detected at levels that complied with Class III Marine Quality Criteria (62-302.530, F.A.C.). 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 sample. The analytical chemistry suggests that the effluent is nitrogen limited.

- A salinity adjusted AGP test was not scheduled.

- The effluent AGP result is greater than the AGP range (6.10 to 20.0 mg dry wt/L) suggested to be representative of high productivity for freshwater (Miller et al. 1978).

Organic Constituents (See Table 5 and Appendix D)

- There are no effluent permit limits for organic constituents.

- Atrazine, Fipronil Sulfide, Sulfentrazone, Tebuconazole, and Hexachlorocyclopentadiene were detected in the effluent grab sample.

- Atrazine Desethyl, Dithiopyr, Fipronil Desulfinyl, Metolachlor, and 2,4,6-Trichlorophenol was detected in the effluent grab sample between the MDL and PQL. 2,4,6-Trichlorophenol values are within Class III Marine Water Quality Criterion (62-302.530, F.A.C.).

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.

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

Table 1. Measured field parameters

Effluent limits, Class III Marine Criteria, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent Permit Limits EFA-1	Effluent Grab EFA-1
pH	SU	6.5 - 8.5	6.5 - 8.5	-	6.98
Total Residual Chlorine (disinfection)	mg/L	-	-	> 1.0	2.26 c

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 Marine Criteria, and analytical water chemistry, microbiological, and toxicological data

Analyte	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent Permit Limits EFA-1	Effluent Grab EFA-1
Ortho-phosphate	mg P/L	-	-	-	1.9
Total Phosphorus[1]	mg P/L	-	-	≤ 8.0	1.9
Total Ammonia	mg N/L	-	-	-	0.045 A
Nitrate and Nitrite	mg N/L	-	-		4.2
Total Kjeldahl Nitrogen	mg N/L	-	-	-	1.0 J
Organic Nitrogen	mg N/L	-	-	-	1.0 c
Total Nitrogen	mg N/L	-	-	≤ 24.0	5.2 c
Total Organic Carbon	mg C/L	-	-	-	12
Chlorophyll *a* - Corrected	µg/L	≤ 6.4	-	-	0.82 U
Phaeophytin	µg/L	-	-	-	0.90 U
CBOD, 5 day, N – inhibited [2]	mg/L	-	-	≤ 60.0	2.0 U
Turbidity	NTU	< 29 t	-	-	0.10 U
Color (true)	PCU	-	-		49 A
Alkalinity	mg CaCO3/L	-	-	-	74 A
Chloride[2]	mg Cl/L	< 10%	-	-	140 A
Cyanide	mg/L	≤ 1.0	-	-	-
Fluoride	mg F/L	≤ 5.0	-	-	0.45
Sulfate	mg SO4/L	-	-	-	99 A
Fecal coliforms	MPN/100mL	-	-	≤ 86	1.00 U
Escherichia coli	MPN/100mL	-	≤ 35	-	1.00 U
Bioassay - Water flea *(Ceriodaphnia dubia)*, LC50	% effluent	≥ 100	≥ 100	-	>100
Bioassay - Fish *(Cyprinella leedsi)*, LC50	% effluent	≥ 100	≥ 100	-	>100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
J - Estimated value
U - Material analyzed for but not detected; value reported is the method detection limit

Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
1 - Analyte detected in the blank (0.004 IY mg P/L)
2 - Analyte shall not be more than 10% above normal background.

Table 3. Analytical metals data

Effluent limits, Class III Marine Criteria, and analytical metals data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFA-1
Hardness	mg CaCO3/L	-	-	150 c
Aluminum	µg/L	≤ 1500	-	15 I
Arsenic	µg/L	≤ 50	-	0.79
Cadmium	µg/L	≤ 8.8	-	0.020 U
Calcium	mg/L	-	-	46.3
Chromium, Total [3]	µg/L	≤ 50	-	0.61 I
Copper	µg/L	≤ 3.7	-	0.62 I
Iron	µg/L	≤ 300	-	40 I
Lead	µg/L	≤ 8.5	-	0.20 U
Magnesium	mg/L	-	-	8.46
Nickel	µg/L	≤ 8.3	-	1.2 I
Selenium	µg/L	≤ 71	-	0.22 I
Silver	µg/L	≤ 2.3	-	0.010 U
Sodium	mg/L	-	-	111
Zinc	µg/L	≤ 86	-	25

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
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
3 - Class III Marine Quality Criterion (62-302.530(19)(a), 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*	87.9 A	161.3 ± 32.3	817 ± 163.4	197.6 ± 39.5	817 ± 163.4	2.2	2.7

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

Table 5. Detected Organic Constituents

Effluent limits, Class III Marine Criteria, and analytical organic and pesticide

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFA-1
Atrazine	ng/L	-	-	19 Y
Atrazine Desethyl	ng/L	-	-	3.4 IY
Dithiopyr	ng/L	-	-	0.19 IY
Fipronil Desulfinyl	ng/L	-	-	0.46 IY
Fipronil Sulfide	ng/L	-	-	0.87 Y
Metolachlor	ng/L	-	-	1.5 IY
Sulfentrazone	ng/L	-	-	21 Y
Tebuconazole	ng/L	-	-	22 Y
2,4,6-Trichlorophenol	ug/L	≤ 6.5 a	-	0.15 IY
Hexachlorocyclopentadiene	ug/L	-	-	0.31 Y

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
a - annual average
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Kane	**Contact Number:** 407-897-4156
Facility Name (as it appears on permit): Cocoa/Jerry Sellers Water Reclamation Facility	**Former Names:** **N/A**
NPDES Permit Number: FL0021521	**Permit Expiration Date:** October 10, 2023
Physical Address: 375 N. Cocoa Blvd. Cocoa, FL 32922	
District: Central	**County:** Brevard
Function of Facility: Domestic Wastewater Treatment Plant	
Facility Type: Domestic Wastewater	**Permitted Capacity (MGD):** 4.5
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 0.00 Facility has not discharged in the previous 12 months.	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): 2.04 MGD from March 2019 to February 2020.	
Description of type of Discharge: ☐ **Continuous** ☐ **Intermittent** ☐ **Seasonal** **X Rainfall Dependent** ☐ **Other, please specify:**	
Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): The point of discharge is located approximately at latitude 28°21' 42" N, longitude 80°43' 46" W.	
Description of Permitted Outfall(s): Approximately 115 feet in length and discharges at a depth of approximately 5 feet.	
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): Modified Bardenpho process domestic wastewater treatment plant consisting of influent screening and grit removal, odor control, dual fermentation basins, dual anoxic basins, three aeration basins, second dual anoxic basins, reaeration basin, dual secondary clarifiers, chemical feed facilities, dual filters, flocculation, dual chlorination basins followed by dechlorination with sodium bisulfite, and aerobic digestion of residuals with belt press dewatering.	

PART I: Continued

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

	Effluent Limitations	Monitoring Requirements

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow, to D-001	MGD	Max Max	0.990 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	20.0 30.0 40.0	Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	See I.A.6
Solids, Total Suspended	mg/L	Max Max Max	20.0 30.0 40.0	Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	See I.A.6
Coliform, Fecal	#/100mL	Max Max Max	14 14 86	Annual Average Monthly Median Single Sample	Weekly	Grab	EFA-1	See I.A5
Enterococci	#/100mL	Max Max	35	Monthly Geometric Mean	5/Month	Grab	EFD-1	See I.A.8
pH	s.u.	Min Max	6.5 8.5	Single Sample Single Sample	Continuous	Meter	EFD-1	See I.A.3
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-1	See I.A.3 and I.A.7
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Daily; 24 hours	Grab	EFD-1	
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Annually	4 grabs/24 hr.period	EFD-1	See I.A.9

Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	Annually	4 grabs/24 hr.period	EFD-1	See I.A.9
Nitrogen, Total	mg/L	Max Max Max	12.0 18.0 24.0	Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	
Phosphorus, Total (as P)	mg/L	Max Max Max	4.0 6.0 8.0	Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Daily; 24 hours	Grab	EFD-1	
BOD, Carbonaceous 5 day, 20C	lb/yr	Max Max	68305 Report	Annual Total Monthly Total	Weekly	Calculated	CAL-1	See I.A.6 & 10
Solids, Total Suspended	lb/yr	Max Max	68305 Report	Annual Total Monthly Total	Weekly	Calculated	CAL-1	See I.A.6 & 10
Nitrogen, Total	lb/yr	Max Max	5556 Report	Annual Total Monthly Total	Weekly	Calculated	CAL-1	See I.A.11
Phosphorus, Total (as P)	lb/yr	Max Max	1423 Report	Annual Total Monthly Total	Weekly	Calculated	CAL-1	See I.A.11
Rainfall	in	Max	Report	Monthly Average	Daily; 24 hours	Meter	OTH-1	

PART I: Continued

Receiving Waters: Indian River Lagoon	**Classification (indicate whether fresh or marine):** Class III Marine waters

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.): The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001.

a. Effluent Limitation

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

b. Monitoring Frequency

(1) Routine toxicity tests shall be conducted annually during any year with a discharge, the first starting during the next discharge event and lasting for the duration of this permit.

c. Sampling Requirements

(1) Routine tests shall be conducted on four separate grab samples collected at evenly-spaced (6-hr) intervals over a 24-hour period. The four grab samples shall be used in eight bioassays (four bioassays for each species) and shall represent one test. If the duration of the discharge is less than 24-hours, the duration of discharge shall be documented on the chain of custody.

(2) For additional follow-up tests, the first test shall be conducted on four separate grab samples collected at evenly-spaced (6-hr) intervals over a 24-hour period. The four grab samples shall be used in four separate bioassays for each species that failed the routine test. The four grab samples represent one test. The second follow-up test shall be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the routine or first additional follow-up test.

d. Test Requirements

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent.

(2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, Ceriodaphnia dubia, and the bannerfin shiner, Cyprinella leedsi, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Edition, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.

(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.

e. Quality Assurance Requirements

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

(2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 10% at that time, the test (including the control) for

that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

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

f. Reporting Requirements

(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:

(a) Routine Test Results: If an LC50 >100% effluent occurs in all four separate grab sample tests for the test species, ">100%" shall be entered on the DMR for that test species. If in any of the four separate grab sample tests for the test species an LC50 <100% effluent occurs, the lowest calculated LC50 effluent concentration shall be entered on the DMR for that test species.

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

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

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, 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

Central District Office

3319 Maguire Blvd, Suite 232

Orlando, Florida 32803-3767

g. Test Failures

(1) A test fails when the test results do not meet the limits in 0.a.(1).

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the acute toxicity limitation in 0.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 0.d.

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

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

(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 0.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 0.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 0.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 14 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

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

[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:

Date	Parameter and Units	Limit	Result
N/A			

Describe previous FYI and WQBEL study: No studies in the last five years.
Describe previous or current Enforcement Actions (including WLs): December 23, 2019 Warning Letter Access control is not being maintained at the Bracco substandard water hold pond. • Two of the three effluent transfer pumps were leaking at the time of inspection. October 18, 2017 Warning Letter from September 10, 2017, through September 12, 2017, Bracco pond 1A overflowed and resulted in unauthorized releases of approximately 1,180,000 gallons of partially treated wastewater to surface water.

Describe any violations or problems noted in previous inspection: 11/13/2019 Inspection

Operation and Maintenance: Out-of-Compliance

8.1 Deficiency: At the time of inspection the two of the three effluent transfer pumps were leaking.

Rule/Permit Reference: 62-620.610(7), F.A.C. - All facilities and equipment necessary for the treatment, reuse, and disposal of domestic wastewater and biosolids shall be maintained, at a minimum, so as to function as intended. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit.

Corrective Action: According to a November 27, 2019 email the Influent Pump Station and Transfer Pump Station project is tentatively expected to start July 31, 2020. The pumps will be repaired as part of this project.

Effluent Disposal: Out-of-Compliance

10.1 Deficiency: The Bracco reject pond was not completely fenced at the time of inspection.

Rule/Permit Reference: Permit Condition VIII.6: The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons.

Corrective Action: Enclose the Bracco pond in a fence completely since reject water can be sent to this area. According to an email on November 27, 2019 quotes have been obtained to enclose this area completely with a permanent fence. Pictures were also provided of a temporary fence and signage posted to deter public access until the permanent fence can be installed.

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

CBOD is improving slightly. Nitrogen and Phosphorus fluctuate. The flow fluctuates with a slight increase in the August and September 2019 discharge events.

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

PART II: Sampling Event Information	
Date(s) sample collected: **03/30/2020**	Sampler(s): **Kane, LaFon**
Temperature (Deg C): na	pH (SU): na
Dissolved Oxygen (mg/L): na	Conductivity (umhos/cm): na
Total Residual Chlorine (mg/L): na	Total Residual Chlorine - after Disinfection (mg/L): na
Method of Chlorination: See below.	Method of De-chlorination: See below.
Flow During Sample Collection for each outfall(MGD): none to surface waters.	
Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day): none to surface waters.	
Describe Discharge during Sampling Event: Continuous Intermittent Seasonal X Rainfall Dependent Other, please specify:	
Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here: The facility had not been discharging to surface waters for some time. Permitted chlorination is "dual chlorination basins followed by dichlorination with sodium bisulfite."	

Appendix B. Explanations of Measurements

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

- **Chemical Analyses of the Effluent**

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

- **Toxicity Bioassays**

  Greater than 50% mortality in an acute toxicity test may constitute an exceedance of 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 62-302.530(20), 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 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 62-302.530(47), F.A.C., 62-302.530(48)(a), F.A.C. and/or 62-302.530(48)(b), F.A.C..

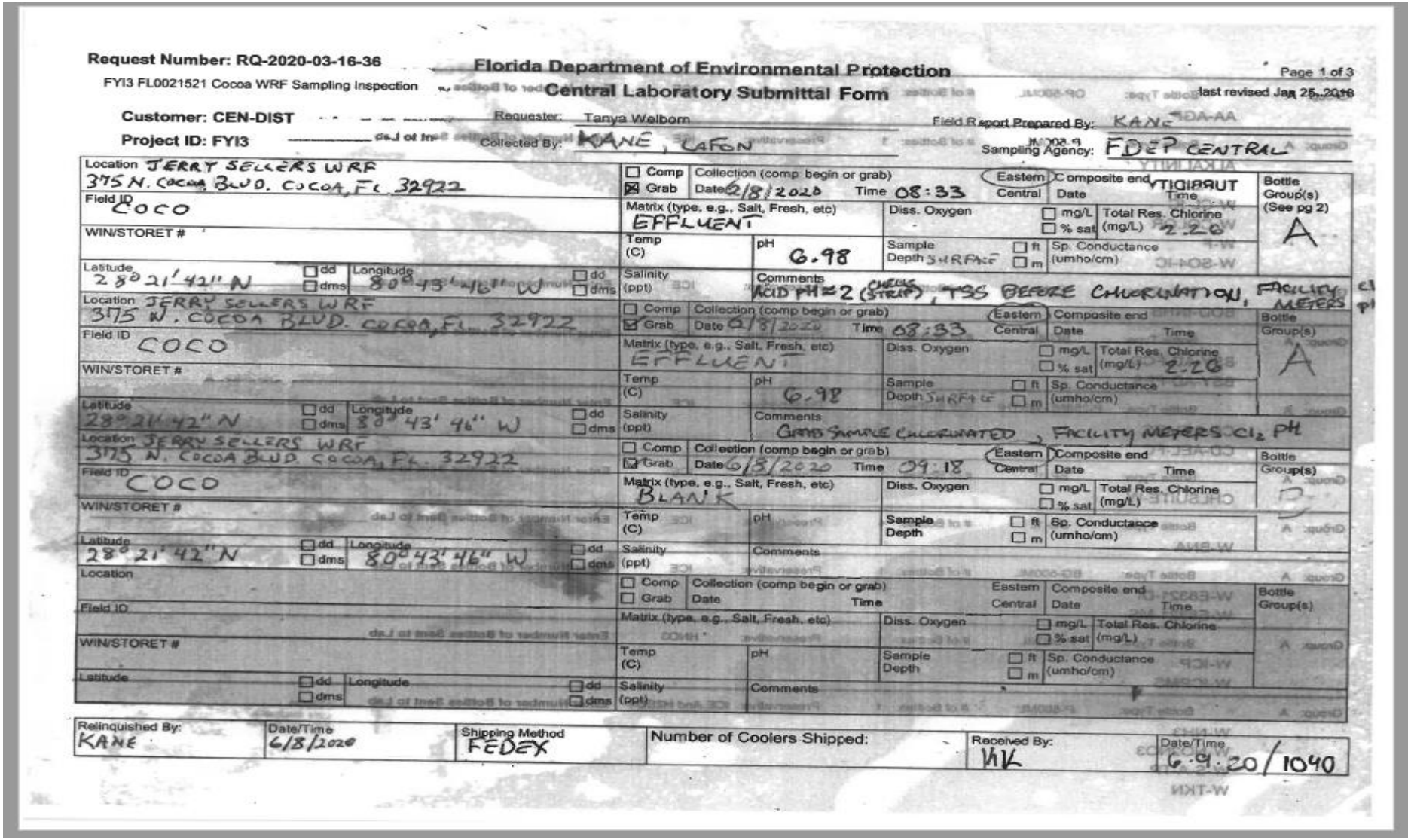
  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble 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 62-302.530(62), F.A.C.

- **Definition of Qualifiers**

  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-2020-03-16-36
FYI3 FL0021521 Cocoa WRF Sampling Inspection

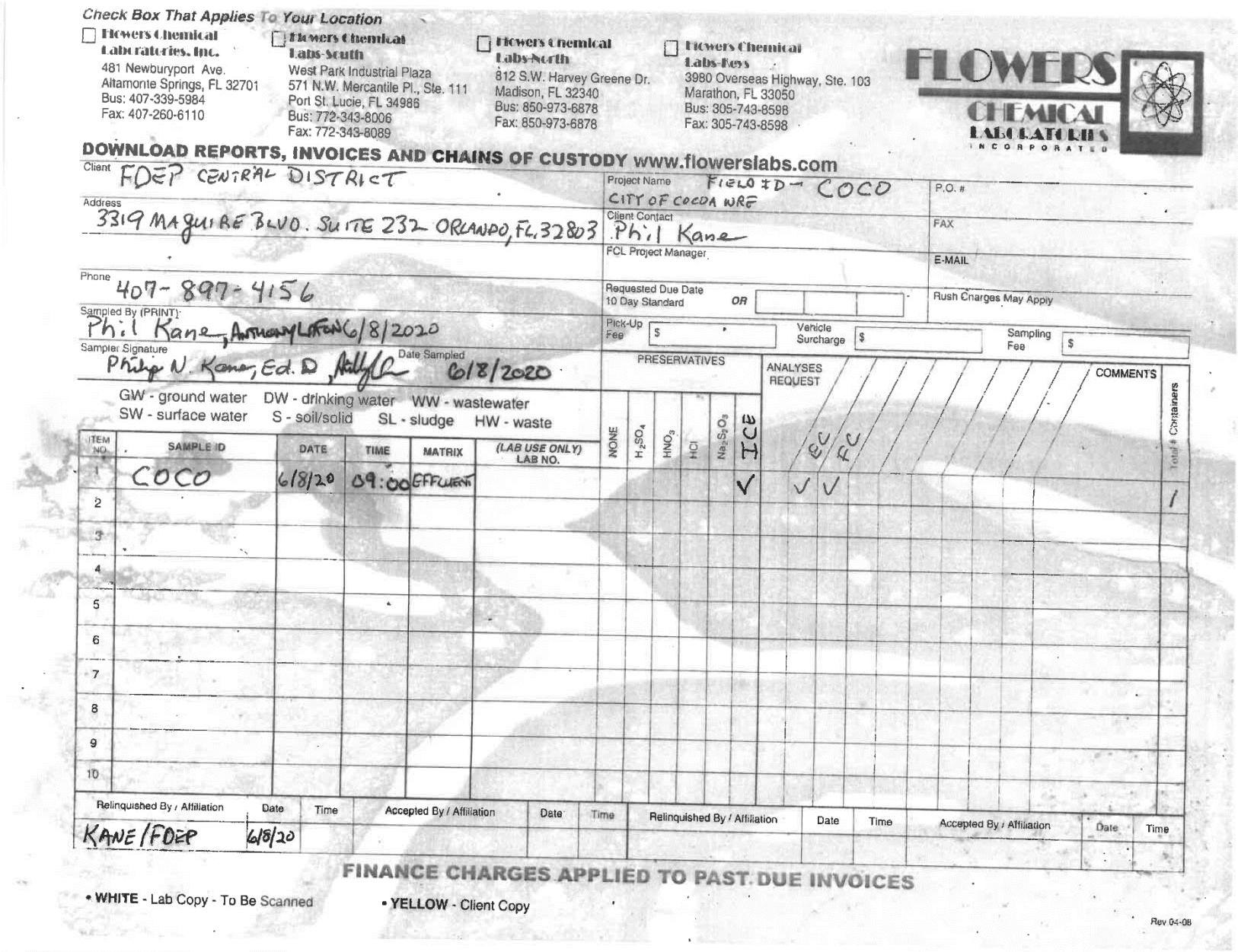
Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 3
last revised Jan 25, 2018

Customer: CEN-DIST Requester: Tanya Welborn
Project ID: FYI3 Collected By: KANE, CAFON
Field Report Prepared By: KANE
Sampling Agency: FDEP CENTRAL

Location: JERRY SELLERS WRF 375 N. COCOA BLVD. COCOA, FL 32922	☐ Comp ☒ Grab	Collection (comp begin or grab) Date: 6/8/2020 Time: 08:33	Eastern / Central	Composite end Date / Time					Bottle Group(s) (See pg 2): A
Field ID: COCO	Matrix (type, e.g., Salt, Fresh, etc): EFFLUENT		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L): 2.26				
WIN/STORET #	Temp (C)	pH: 6.98	Sample Depth: SURFACE ☐ ft ☐ m	Sp. Conductance (umho/cm)					
Latitude: 28°21'42" N ☐ dd ☐ dms	Longitude: 80°43'46" W ☐ dd ☐ dms	Salinity (ppt)	Comments: ACID PH=2 (CHECK STRIP), TSS BEFORE CHLORINATION, FACILITY METERS Cl2 pH						
Location: JERRY SELLERS WRF 375 N. COCOA BLVD. COCOA, FL 32922	☐ Comp ☒ Grab	Collection (comp begin or grab) Date: 6/8/2020 Time: 08:33	Eastern / Central	Composite end Date / Time					Bottle Group(s): A
Field ID: COCO	Matrix (type, e.g., Salt, Fresh, etc): EFFLUENT		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L): 2.26				
WIN/STORET #	Temp (C)	pH: 6.98	Sample Depth: SURFACE ☐ ft ☐ m	Sp. Conductance (umho/cm)					
Latitude: 28°21'42" N ☐ dd ☐ dms	Longitude: 80°43'46" W ☐ dd ☐ dms	Salinity (ppt)	Comments: GRAB SAMPLE CHLORINATED, FACILITY METERS Cl2 pH						
Location: JERRY SELLERS WRF 375 N. COCOA BLVD. COCOA, FL. 32922	☐ Comp ☒ Grab	Collection (comp begin or grab) Date: 6/8/2020 Time: 09:18	Eastern / Central	Composite end Date / Time					Bottle Group(s): D
Field ID: COCO	Matrix (type, e.g., Salt, Fresh, etc): BLANK		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)					
Latitude: 28°21'42" N ☐ dd ☐ dms	Longitude: 80°43'46" W ☐ 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
KANE	6/8/2020	FEDEX		VK	6.9.20/1040



Check Box That Applies To Your Location

☐ **Flowers Chemical Laboratories, Inc.**
481 Newburyport Ave.
Altamonte Springs, FL 32701
Bus: 407-339-5984
Fax: 407-260-6110

☐ **Flowers Chemical Labs-South**
West Park Industrial Plaza
571 N.W. Mercantile Pl., Ste. 111
Port St. Lucie, FL 34986
Bus: 772-343-8006
Fax: 772-343-8089

☐ **Flowers Chemical Labs-North**
812 S.W. Harvey Greene Dr.
Madison, FL 32340
Bus: 850-973-6878
Fax: 850-973-6878

☐ **Flowers Chemical Labs-Keys**
3980 Overseas Highway, Ste. 103
Marathon, FL 33050
Bus: 305-743-8598
Fax: 305-743-8598

FLOWERS CHEMICAL LABORATORIES INCORPORATED

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Client: FDEP CENTRAL DISTRICT
Address: 3319 MAGUIRE BLVD. SUITE 232 ORLANDO, FL. 32803
Phone: 407-897-4156
Sampled By (PRINT): Phil Kane, ANTHONY LATEN 6/8/2020
Sampler Signature: Philip N. Kane, Ed. D, Date Sampled: 6/8/2020

Project Name: FIELD ID - COCO CITY OF COCOA WRF
Client Contact: Phil Kane
FCL Project Manager:
Requested Due Date 10 Day Standard OR
Pick-Up Fee $
Vehicle Surcharge $
Sampling Fee $
P.O. #
FAX
E-MAIL
Rush Charges May Apply

GW - ground water DW - drinking water WW - wastewater
SW - surface water S - soil/solid SL - sludge HW - waste

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES: NONE	H_2SO_4	HNO_3	HCl	$Na_2S_2O_3$	ICE	ANALYSES REQUEST: EC	FC	COMMENTS	Total # Containers
1	COCO	6/8/20	09:00	EFFLUENT							✓	✓	✓		1
2															
3															
4															
5															
6															
7															
8															
9															
10															

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
KANE/FDEP	6/8/20										

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• **WHITE** - Lab Copy - To Be Scanned • **YELLOW** - Client Copy

Rev 04-08

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

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

Contractor: Test America Laboratories, Inc
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

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

Contractor Representatives Contacted: Noel Savoie

Date: 6/8/2020
Means of Contact: Email

Task Assignment Number: OV156 Maximum Cost: **$36.25** Turnaround Time: 10 BD

Sample Delivery Date: 6/8/2020

Project Name/Description: COCO -(FIELD ID)
RQ-2020-03-16-36
COCOA WRF (CITY OF COCOA, FL. 32922)

Deliverable Number/ Parameter Group/ Method	Sample Matrix	# of Samples	# of Containers	DEP ID #	Unit Cost	% Mark-up (if any)	Cost
OV-BOD 5210B-2011 *Quote	W	1	1		$33.75		$33.75
				Loc: 660 102505			
217/Sample Disposal Fee:	1				$2.50		$2.50
Total Number of Containers Shipped:	1					**Total:**	**$36.25**

660-102505 Chain of Custody

QC Instructions:

Comments: Quote # 66014900-0

Samples released to Contract Lab by: KANE, LAPON Date/Time: 6/8/2020 COLLECTED 09:37

Delivery Method FEDEX Shipping

Samples Accepted by: _____ Date/Time _____

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

Emily Edwards 6/9/20 9:35 4.4/4.5 CV201

Appendix D. Chemical Analysis of Effluent and Receiving Water

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 8:33	Effluent Grab	AGP/LN	Algal Growth Potential	87.9 A	mg DryWt/L	0.300	0.900
6/8/2020 8:33	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 U	µg/L	0.90	2.7
6/8/2020 8:33	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	0.60 I	µg/L	0.60	1.8
6/8/2020 8:33	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.82 U	µg/L	0.82	2.5
6/8/2020 8:33	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
6/8/2020 8:33	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
6/8/2020 8:33	Effluent Grab	Metals	Zinc	25	µg/L	5.0	20
6/8/2020 8:33	Effluent Grab	Metals	Calcium	46.3	mg/L	0.075	0.30
6/8/2020 8:33	Effluent Grab	Metals	Magnesium	8.46	mg/L	0.040	0.16
6/8/2020 8:33	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
6/8/2020 8:33	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
6/8/2020 8:33	Effluent Grab	Metals	Chromium	0.61 I	µg/L	0.40	1.6
6/8/2020 8:33	Effluent Grab	Metals	Nickel	1.2 I	µg/L	0.50	2.0
6/8/2020 8:33	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
6/8/2020 8:33	Effluent Grab	Metals	Copper	0.62 I	µg/L	0.40	0.80
6/8/2020 8:33	Effluent Grab	Metals	Iron	40 I	µg/L	30	120
6/8/2020 8:33	Effluent Grab	Metals	Sodium	111	mg/L	0.50	2.0
6/8/2020 8:33	Effluent Grab	Metals	Aluminum	15 I	µg/L	5.0	20
6/8/2020 8:33	Effluent Grab	Metals	Arsenic	0.79	µg/L	0.050	0.20
6/8/2020 8:33	Effluent Grab	Metals	Selenium	0.22 I	µg/L	0.20	0.80
6/8/2020 8:33	Effluent Grab	Nutrients	Kjeldahl Nitrogen	1.0 J	mg N/L	0.080	0.20
6/8/2020 8:33	Effluent Grab	Nutrients	Fluoride	0.45	mg F/L	0.035	0.10
6/8/2020 8:33	Effluent Grab	Nutrients	O-Phosphate-P	1.9	mg P/L	0.080	0.20
6/8/2020 8:33	Effluent Grab	Nutrients	Ammonia-N	0.045 A	mg N/L	0.010	0.025
6/8/2020 8:33	Effluent Grab	Nutrients	NO2NO3-N	4.2	mg N/L	0.080	0.20
6/8/2020 8:33	Effluent Grab	Nutrients	Total Alkalinity	74 A	mg CaCO3/L	0.65	2.5
6/8/2020 8:33	Effluent Grab	Nutrients	Turbidity	0.10 U	NTU	0.10	0.13
6/8/2020 8:33	Effluent Grab	Nutrients	Sulfate	99 A	mg SO4/L	0.40	1.0
6/8/2020 8:33	Effluent Grab	Nutrients	Color (true)	49 A	PCU	2.5	6.0
6/8/2020 8:33	Effluent Grab	Nutrients	Chloride	140 A	mg Cl/L	0.40	1.0

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 8:33	Effluent Grab	Nutrients	Total-P	1.9	mg P/L	0.050	0.50
6/8/2020 8:33	Effluent Grab	Nutrients	Organic Carbon	12	mg C/L	0.50	1.0
6/8/2020 8:33	Effluent Grab	Pesticides	Naproxen	0.0080 UY	µg/L	0.0080	0.032
6/8/2020 8:33	Effluent Grab	Pesticides	Ethion	0.14 UYJ	ng/L	0.14	0.57
6/8/2020 8:33	Effluent Grab	Pesticides	Fonofos	0.19 UYJ	ng/L	0.19	0.75
6/8/2020 8:33	Effluent Grab	Pesticides	Hexazinone	0.47 UY	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Norflurazon	0.47 UY	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Oxadiazon	0.094 UY	ng/L	0.094	0.38
6/8/2020 8:33	Effluent Grab	Pesticides	Pronamide	0.14 UY	ng/L	0.14	0.57
6/8/2020 8:33	Effluent Grab	Pesticides	Propiconazole	0.47 UY	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Sulfentrazone	21 Y	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Alachlor	0.24 UY	ng/L	0.24	0.94
6/8/2020 8:33	Effluent Grab	Pesticides	Bromacil	0.47 UY	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Carbophenothion	0.47 UYJ	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Naled	1.4 UYJ	ng/L	1.4	5.7
6/8/2020 8:33	Effluent Grab	Pesticides	Parathion Ethyl	0.24 UYJ	ng/L	0.24	0.94
6/8/2020 8:33	Effluent Grab	Pesticides	Parathion Methyl	0.52 UYJ	ng/L	0.52	2.1
6/8/2020 8:33	Effluent Grab	Pesticides	Tebuconazole	22 Y	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Terbuthylazine	0.40 UY	ng/L	0.40	1.6
6/8/2020 8:33	Effluent Grab	Pesticides	Ametryn	0.57 UY	ng/L	0.57	2.3
6/8/2020 8:33	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.24 UYJ	ng/L	0.24	0.94
6/8/2020 8:33	Effluent Grab	Pesticides	Disulfoton	0.47 UYJ	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Metribuzin	3.1 UY	ng/L	3.1	12
6/8/2020 8:33	Effluent Grab	Pesticides	Prodiamine	0.17 UYJ	ng/L	0.17	0.66
6/8/2020 8:33	Effluent Grab	Pesticides	Terbufos	0.094 UYJ	ng/L	0.094	0.38
6/8/2020 8:33	Effluent Grab	Pesticides	Atrazine Desethyl	3.4 IY	ng/L	1.4	5.7
6/8/2020 8:33	Effluent Grab	Pesticides	Cyanazine	3.1 UY	ng/L	3.1	12
6/8/2020 8:33	Effluent Grab	Pesticides	Diazinon	0.12 UYJ	ng/L	0.12	0.47
6/8/2020 8:33	Effluent Grab	Pesticides	Dimethenamid	0.094 UY	ng/L	0.094	0.38
6/8/2020 8:33	Effluent Grab	Pesticides	Dithiopyr	0.19 IY	ng/L	0.094	0.38
6/8/2020 8:33	Effluent Grab	Pesticides	EPTC	1.2 UYJ	ng/L	1.2	4.7
6/8/2020 8:33	Effluent Grab	Pesticides	Ethoprop	0.094 UYJ	ng/L	0.094	0.38
6/8/2020 8:33	Effluent Grab	Pesticides	Fipronil	0.24 UY	ng/L	0.24	0.94
6/8/2020 8:33	Effluent Grab	Pesticides	Malathion	0.33 UYJ	ng/L	0.33	1.3

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 8:33	Effluent Grab	Pesticides	Mevinphos	0.47 UYJ	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Ibuprofen	0.020 UY	µg/L	0.020	0.080
6/8/2020 8:33	Effluent Grab	Pesticides	Butylate	0.38 UY	ng/L	0.38	1.5
6/8/2020 8:33	Effluent Grab	Pesticides	Fenamiphos	0.47 UYJ	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.46 IY	ng/L	0.12	0.47
6/8/2020 8:33	Effluent Grab	Pesticides	Imazalil	0.71 UY	ng/L	0.71	2.8
6/8/2020 8:33	Effluent Grab	Pesticides	Sucralose	46 Y	µg/L	0.10	0.40
6/8/2020 8:33	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.047 UYJ	ng/L	0.047	0.19
6/8/2020 8:33	Effluent Grab	Pesticides	Fipronil Sulfone	0.14 UY	ng/L	0.14	0.57
6/8/2020 8:33	Effluent Grab	Pesticides	Phorate	0.24 UYJ	ng/L	0.24	0.94
6/8/2020 8:33	Effluent Grab	Pesticides	Prometryn	0.19 UY	ng/L	0.19	0.75
6/8/2020 8:33	Effluent Grab	Pesticides	Demeton	1.4 UYJ	ng/L	1.4	5.7
6/8/2020 8:33	Effluent Grab	Pesticides	Flumioxazin	1.7 UY	ng/L	1.7	6.6
6/8/2020 8:33	Effluent Grab	Pesticides	Metolachlor	1.5 IY	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Pesticides	Molinate	0.28 UYJ	ng/L	0.28	1.1
6/8/2020 8:33	Effluent Grab	Pesticides	Acetochlor	0.24 UY	ng/L	0.24	0.94
6/8/2020 8:33	Effluent Grab	Pesticides	Atrazine	19 Y	ng/L	0.24	0.94
6/8/2020 8:33	Effluent Grab	Pesticides	Azinphos Methyl	1.9 UYJ	ng/L	1.9	7.5
6/8/2020 8:33	Effluent Grab	Pesticides	Fipronil Sulfide	0.87 Y	ng/L	0.14	0.57
6/8/2020 8:33	Effluent Grab	Pesticides	Metalaxyl	0.71 UY	ng/L	0.71	2.8
6/8/2020 8:33	Effluent Grab	Pesticides	Pendimethalin	0.94 UY	ng/L	0.94	3.8
6/8/2020 8:33	Effluent Grab	Pesticides	Prometon	0.85 UY	ng/L	0.85	3.3
6/8/2020 8:33	Effluent Grab	Pesticides	Simazine	0.47 UY	ng/L	0.47	1.9
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 UY	µg/L	0.10	0.40
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 UY	µg/L	3.0	12
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 UY	µg/L	10	40
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.025 UY	µg/L	0.025	0.10

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 UY	µg/L	1.0	4.0
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Chrysene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.31 Y	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 UY	µg/L	0.10	0.40
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.15 IY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 UY	µg/L	10	40
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.51 UY	µg/L	0.51	2.0
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 UY	µg/L	2.0	8.1
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Anthracene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Fluorene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Isophorone	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 UY	µg/L	2.0	8.1
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 UY	µg/L	10	40
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 UY	µg/L	5.1	20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.0 UY	µg/L	2.0	8.1
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.051 UY	µg/L	0.051	0.20

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Phenol	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Benzidine	10 UY	µg/L	10	40
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.025 UY	µg/L	0.025	0.10
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 UY	µg/L	0.051	0.20
6/8/2020 8:33	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 UY	µg/L	0.10	0.40
6/8/2020 8:33	Effluent Grab	Nutrients	Total Residual Chlorine	2.26	mg/L		
6/8/2020 8:33	Effluent Grab	Nutrients	pH	6.98			
6/8/2020 9:37	Effluent Grab	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0
6/8/2020 9:37	Effluent Grab	Nutrients	pH	6.98			
6/8/2020 9:37	Effluent Grab	Nutrients	Total Residual Chlorine	2.26	mg/L		
6/8/2020 9:18	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
6/8/2020 9:18	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
6/8/2020 9:18	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
6/8/2020 9:18	Field Blank	Metals	Iron	30 U	µg/L	30	120
6/8/2020 9:18	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
6/8/2020 9:18	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
6/8/2020 9:18	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
6/8/2020 9:18	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
6/8/2020 9:18	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
6/8/2020 9:18	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
6/8/2020 9:18	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
6/8/2020 9:18	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
6/8/2020 9:18	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
6/8/2020 9:18	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
6/8/2020 9:18	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
6/8/2020 9:18	Field Blank	Nutrients	Color (true)	2.5 UY	PCU	2.5	6.0
6/8/2020 9:18	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 UY	mg N/L	0.080	0.20
6/8/2020 9:18	Field Blank	Nutrients	Organic Carbon	0.50 UY	mg C/L	0.50	1.0
6/8/2020 9:18	Field Blank	Nutrients	Turbidity	0.10 UY	NTU	0.10	0.13
6/8/2020 9:18	Field Blank	Nutrients	Sulfate	0.20 UY	mg SO4/L	0.20	0.50
6/8/2020 9:18	Field Blank	Nutrients	Total Alkalinity	0.65 UY	mg CaCO3/L	0.65	2.5
6/8/2020 9:18	Field Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.10

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 9:18	Field Blank	Nutrients	Total-P	0.004 IY	mg P/L	0.0020	0.0050
6/8/2020 9:18	Field Blank	Nutrients	O-Phosphate-P	0.004 UY	mg P/L	0.0040	0.010
6/8/2020 9:18	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
6/8/2020 9:18	Field Blank	Nutrients	Ammonia-N	0.002 UY	mg N/L	0.0020	0.0050
6/8/2020 9:18	Field Blank	Nutrients	NO2NO3-N	0.004 UY	mg N/L	0.0040	0.010
6/8/2020 9:18	Field Blank	Pesticides	Fenamiphos	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Phorate	0.25 UYJ	ng/L	0.25	1.0
6/8/2020 9:18	Field Blank	Pesticides	Simazine	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Terbufos	0.10 UYJ	ng/L	0.10	0.40
6/8/2020 9:18	Field Blank	Pesticides	Sucralose	0.010 UY	µg/L	0.010	0.040
6/8/2020 9:18	Field Blank	Pesticides	Naproxen	0.0080 UY	µg/L	0.0080	0.032
6/8/2020 9:18	Field Blank	Pesticides	Azinphos Methyl	2.0 UYJ	ng/L	2.0	8.1
6/8/2020 9:18	Field Blank	Pesticides	Demeton	1.5 UY	ng/L	1.5	6.0
6/8/2020 9:18	Field Blank	Pesticides	Fonofos	0.20 UYJ	ng/L	0.20	0.81
6/8/2020 9:18	Field Blank	Pesticides	Metalaxyl	0.76 UY	ng/L	0.76	3.0
6/8/2020 9:18	Field Blank	Pesticides	Pronamide	0.15 UY	ng/L	0.15	0.60
6/8/2020 9:18	Field Blank	Pesticides	Tebuconazole	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Ethion	0.15 UY	ng/L	0.15	0.60
6/8/2020 9:18	Field Blank	Pesticides	Fipronil Desulfinyl	0.13 UY	ng/L	0.13	0.50
6/8/2020 9:18	Field Blank	Pesticides	Imazalil	0.76 UY	ng/L	0.76	3.0
6/8/2020 9:18	Field Blank	Pesticides	Mevinphos	0.50 UYJ	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Norflurazon	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Oxadiazon	0.10 UY	ng/L	0.10	0.40
6/8/2020 9:18	Field Blank	Pesticides	Parathion Methyl	0.55 UY	ng/L	0.55	2.2
6/8/2020 9:18	Field Blank	Pesticides	Prometon	0.91 UY	ng/L	0.91	3.5
6/8/2020 9:18	Field Blank	Pesticides	Chlorpyrifos Methyl	0.050 UY	ng/L	0.050	0.20
6/8/2020 9:18	Field Blank	Pesticides	EPTC	1.3 UYJ	ng/L	1.3	5.0
6/8/2020 9:18	Field Blank	Pesticides	Ethoprop	0.10 UYJ	ng/L	0.10	0.40
6/8/2020 9:18	Field Blank	Pesticides	Carbophenothion	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Cyanazine	3.3 UY	ng/L	3.3	13
6/8/2020 9:18	Field Blank	Pesticides	Diazinon	0.13 UY	ng/L	0.13	0.50
6/8/2020 9:18	Field Blank	Pesticides	Disulfoton	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Fipronil Sulfone	0.15 UY	ng/L	0.15	0.60
6/8/2020 9:18	Field Blank	Pesticides	Flumioxazin	1.8 UY	ng/L	1.8	7.0

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 9:18	Field Blank	Pesticides	Metolachlor	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Ibuprofen	0.020 UY	µg/L	0.020	0.080
6/8/2020 9:18	Field Blank	Pesticides	Atrazine	0.25 UY	ng/L	0.25	1.0
6/8/2020 9:18	Field Blank	Pesticides	Dithiopyr	0.10 UY	ng/L	0.10	0.40
6/8/2020 9:18	Field Blank	Pesticides	Prodiamine	0.18 UYJ	ng/L	0.18	0.70
6/8/2020 9:18	Field Blank	Pesticides	Prometryn	0.20 UY	ng/L	0.20	0.81
6/8/2020 9:18	Field Blank	Pesticides	Propiconazole	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Fipronil	0.25 UY	ng/L	0.25	1.0
6/8/2020 9:18	Field Blank	Pesticides	Fipronil Sulfide	0.15 UY	ng/L	0.15	0.60
6/8/2020 9:18	Field Blank	Pesticides	Acetochlor	0.25 UY	ng/L	0.25	1.0
6/8/2020 9:18	Field Blank	Pesticides	Alachlor	0.25 UY	ng/L	0.25	1.0
6/8/2020 9:18	Field Blank	Pesticides	Atrazine Desethyl	1.5 UY	ng/L	1.5	6.0
6/8/2020 9:18	Field Blank	Pesticides	Bromacil	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Butylate	0.40 UY	ng/L	0.40	1.6
6/8/2020 9:18	Field Blank	Pesticides	Hexazinone	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Malathion	0.35 UY	ng/L	0.35	1.4
6/8/2020 9:18	Field Blank	Pesticides	Metribuzin	3.3 UY	ng/L	3.3	13
6/8/2020 9:18	Field Blank	Pesticides	Molinate	0.30 UYJ	ng/L	0.30	1.2
6/8/2020 9:18	Field Blank	Pesticides	Parathion Ethyl	0.25 UY	ng/L	0.25	1.0
6/8/2020 9:18	Field Blank	Pesticides	Naled	1.5 UY	ng/L	1.5	6.0
6/8/2020 9:18	Field Blank	Pesticides	Ametryn	0.60 UY	ng/L	0.60	2.4
6/8/2020 9:18	Field Blank	Pesticides	Pendimethalin	1.0 UY	ng/L	1.0	4.0
6/8/2020 9:18	Field Blank	Pesticides	Sulfentrazone	0.50 UY	ng/L	0.50	2.0
6/8/2020 9:18	Field Blank	Pesticides	Terbuthylazine	0.43 UY	ng/L	0.43	1.7
6/8/2020 9:18	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.25 UY	ng/L	0.25	1.0
6/8/2020 9:18	Field Blank	Pesticides	Dimethenamid	0.10 UY	ng/L	0.10	0.40
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Fluorene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 UY	µg/L	1.9	7.6
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 UY	µg/L	2.9	11
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.048 UY	µg/L	0.048	0.19

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.5 UY	µg/L	9.5	38
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Acenaphthene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.95 UY	µg/L	0.95	3.8
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Fluoranthene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Isophorone	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.48 UY	µg/L	0.48	1.9
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Phenanthrene	0.095 UY	µg/L	0.095	0.38
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Phenol	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	9.5 UY	µg/L	9.5	38
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Anthracene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Naphthalene	0.095 UY	µg/L	0.095	0.38
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	4-Nitrophenol	9.5 UY	µg/L	9.5	38
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 UY	µg/L	1.9	7.6
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Pyrene	0.095 UY	µg/L	0.095	0.38
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Benzidine	9.5 UY	µg/L	9.5	38
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	4.8 UY	µg/L	4.8	19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Diethyl phthalate	1.9 UY	µg/L	1.9	7.6

Date Sampled	Site	Group	Component	Result	Units	MDL	PQL
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	Chrysene	0.024 UY	µg/L	0.024	0.095
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.048 UY	µg/L	0.048	0.19
6/8/2020 9:18	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.048 UY	µg/L	0.048	0.19

Appendix E. Microbiological Analysis of Effluent

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597 Phone: 407-339-5984 E83018 (Main Lab)
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986 Phone: 772-343-8006 E86562 (South Lab)
812 SW Harvey Green Dr, Madison, FL 32340 Phone: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy, Suite 103, Marathon, FL 33050 Phone: 305-743-8598 E35834 (Keys Lab)

FDEP-Orlando/Kane PO #: n/a

3319 Maguire Blvd Ste 232 Client Project #: City of Cocoa WRF

Orlando,FL 32803 Date Sampled: Jun 8, 2020

Jun 9, 2020; Invoice: 438781

Analysis Report

Lab #: 438781WW1 **Sampled:** 06/08/20 09:37 AM **Desc:** Fecal

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10436346	COLILERT-18	E761792	06/08/20	01:58 PM
E. Coli	1.00 U	mpn/100mL	1.00	1.00	1.00	10436362	SM9223B		06/08/20	01:54 PM