

FINAL
ANALYTICAL REPORT

ETL PROJECT ID: 22-3946

10/25/2022 - Revision 0

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CITY OF VALDOSTA
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CLIENT PROJECT NAME: WITHLACOOCHEE
CLIENT PROJECT ID:
FACILITY ID:

Enclosed are the analytical results for sample(s) received by Environmental Testing Laboratories on October 19, 2022. Results reported herein are reported on an as received basis and conform to current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Sample analyses performed by Environmental Testing Laboratories, Inc. (ETL) unless otherwise noted. ETL is accredited through NELAC and the Florida Department of Health, Certification #E87684. Scope of analyses: RCRA/CERCLA Metals, General Chemistry, Extractable Organics, and Volatile Organics. Effective Dates: February 14, 2002 through June 30, 2023.

This report shall not be reproduced, except in full, without the written consent of Environmental Testing Laboratories, Inc. This report has been signed and authorized by the signatory using an electronic signature and is intended to be the legally binding equivalent of a traditionally handwritten signature.

Authorized for release by:



ENVIRONMENTAL TESTING LABORATORIES INC

412 W. Walcott Street | Thomasville, GA 31792 | Phone: (229)-228-2592 | Fax: (229)-228-2594

Table of Contents

| | |
|--------------------------------|----------|
| Cover Page | A |
| Table of Contents | B |
| Qualifiers Reference | C |
| Project Narrative | D |
| Method Summary | E |
| Sample Summary | F |
| Executive Summary | G |
| Analytical Data | H |
| Data Chronicle | I |
| Quality Control Data | J |
| Sub-Contracted Data | K |

Laboratory Qualifiers

- !** Data deviate from historically established concentration ranges.
- #** Surrogate compound inadvertently omitted.
- \$** Due to dilution, surrogate compound was not detected.
- *** Not reported due to interference
- ?** Data are rejected as should not be used.
- A** Value reported is the arithmetic mean (average) of two or more determinations.
- B** Results based upon colony counts outside the acceptable range.
- BRL** Analyte not detected above specified Method Detection/Reporting Limit.
- D** Measurement made in the field.
- E** Extra samples were taken at composite stations.
- F** When reporting species, F indicates the female sex.
- H** Value based on field kit determination; results may not be accurate.
- I** The reported value is between the laboratory method detection limit and the laboratory practical
- J** Estimated value.
- K** Off-scale low. Actual value is known to be less than the value given.
- L** Off-scale high. Actual value is known to be greater than the value given.
- M** Presence of material is verified but not quantified; the actual value is less than the value given.
- N** Presumptive evidence of presence of material.
- ND** Analyte not detected above specified Method Detection/Reporting Limit.
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time.
- R** Significant rain in the past 48 hours.
- S1** Surrogate recovery reported is outside of laboratory established QA/QC Limits
- S2** Analyte recovery reported is outside of laboratory established QA/QC Limits
- S3** Analyte precision reported is outside of laboratory established QA/QC Limits
- T** Value reported is less than the laboratory method detection limit.
- U** Compound was analyzed for but not detected.
- V** Indicates that the analyte was detected in both the sample and the associated method blank.
- Y** Laboratory analysis was from an improperly preserved sample. Data may not be accurate.
- Z** Too many colonies were present; numeric value represents the filtration volume.

Project Narrative



Environmental Testing Laboratories, Inc. is accredited through NELAC and the Florida Department of Health.



Solid samples are reported on a dry weight basis unless otherwise noted.



Please refer to Section 4.0 of the ETL Quality Assurance Manual for a measure of uncertainty.



All analyses are performed using EPA or FL-DEP methods and certified to meet NELAC requirements, except where noted.



Analytical Method Summary

E87684 **Environmental Testing Laboratories Inc.**
412 W. Walcott Street, Thomasville, GA 31792
(229) 228-2592

DO Meter and Incubation (SM 5210 B)

Sample Summary

| Laboratory Sample ID | Client Sample ID | Matrix | End Date / Time Sampled | Grab / Composite | Percent Moisture |
|----------------------|------------------|--------------------|-------------------------|------------------|------------------|
| 302292 | 1 FILTER INF | AQUEOUS-Wastewater | 10/19/2022 8:10 | C | |
| 302293 | 2 FILTER EFF | AQUEOUS-Wastewater | 10/19/2022 8:10 | C | |
| 302294 | 3 PLANT EFF | AQUEOUS-Wastewater | 10/19/2022 8:10 | C | |

Executive Summary

| Analyte | Analytical Method | Result | Units | Qualifiers | Result Comments |
|------------------------------|-------------------|--------|-------|------------|-----------------|
| 1 FILTER INF (302292) | | | | | |
| Biochemical Oxygen Demand | SM 5210 B | 12 | mg/L | | |
| 2 FILTER EFF (302293) | | | | | |
| Biochemical Oxygen Demand | SM 5210 B | 7.4 | mg/L | | |
| 3 PLANT EFF (302294) | | | | | |
| Biochemical Oxygen Demand | SM 5210 B | 13 | mg/L | | |

Analytical Data

Client Sample ID: 1 FILTER INF

Laboratory Sample ID: 302292

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 10/19/2022 08:10 AM

Percent Moisture:

General Chemistry

| Analyte | DF | Result | Qualifier | Units | MDL | PQL | Analysis Date |
|---------------------------|-----|--------|-----------|-------|-----|-----|-----------------------|
| Biochemical Oxygen Demand | 1.0 | 12 | | mg/L | 2.0 | 2.0 | 10/19/2022 3:00:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



Analytical Data

Client Sample ID: 2 FILTER EFF

Laboratory Sample ID: 302293

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 10/19/2022 08:10 AM

Percent Moisture:

General Chemistry

| Analyte | DF | Result | Qualifier | Units | MDL | PQL | Analysis Date |
|---------------------------|-----|--------|-----------|-------|-----|-----|-----------------------|
| Biochemical Oxygen Demand | 1.0 | 7.4 | | mg/L | 2.0 | 2.0 | 10/19/2022 3:00:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



Analytical Data

Client Sample ID: 3 PLANT EFF

Laboratory Sample ID: 302294

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 10/19/2022 08:10 AM

Percent Moisture:

General Chemistry

| Analyte | DF | Result | Qualifier | Units | MDL | PQL | Analysis Date |
|---------------------------|-----|--------|-----------|-------|-----|-----|-----------------------|
| Biochemical Oxygen Demand | 1.0 | 13 | | mg/L | 2.0 | 2.0 | 10/19/2022 3:00:00 PM |

PQL: Practical Quantitation Limit

RL: Report Limit

MDL: Method Detection Limit

DF: Dilution Factor



Data Chronicle

Client Sample ID: 1 FILTER INF**Laboratory Sample ID:** 302292**Sample Location:****Matrix:** AQUEOUS-Wastewater**Date Collected:** 10/19/2022 08:10 AM**Percent Moisture:**

| Prep | Analysis | Analytical Method | Dilution | Batch | Prepared | Analyzed | Analyst | Lab |
|------|----------|-------------------|----------|------------|-----------------------|-----------------------|---------|--------|
| TOT | RES | SM 5210 B | 1.0 | BOD101922C | 10/19/2022 3:00:00 PM | 10/19/2022 3:00:00 PM | MB | E87684 |

Client Sample ID: 2 FILTER EFF**Laboratory Sample ID:** 302293**Sample Location:****Matrix:** AQUEOUS-Wastewater**Date Collected:** 10/19/2022 08:10 AM**Percent Moisture:**

| Prep | Analysis | Analytical Method | Dilution | Batch | Prepared | Analyzed | Analyst | Lab |
|------|----------|-------------------|----------|------------|-----------------------|-----------------------|---------|--------|
| TOT | RES | SM 5210 B | 1.0 | BOD101922C | 10/19/2022 3:00:00 PM | 10/19/2022 3:00:00 PM | MB | E87684 |

Client Sample ID: 3 PLANT EFF**Laboratory Sample ID:** 302294**Sample Location:****Matrix:** AQUEOUS-Wastewater**Date Collected:** 10/19/2022 08:10 AM**Percent Moisture:**

| Prep | Analysis | Analytical Method | Dilution | Batch | Prepared | Analyzed | Analyst | Lab |
|------|----------|-------------------|----------|------------|-----------------------|-----------------------|---------|--------|
| TOT | RES | SM 5210 B | 1.0 | BOD101922C | 10/19/2022 3:00:00 PM | 10/19/2022 3:00:00 PM | MB | E87684 |

QUALITY ASSURANCE / QUALITY CONTROL DATA

J

Preparation Batch ID: BOD101922C
 Method Batch ID: MBOD101922C


Analysis Method: SM 5210 B

Preparation Type: No Prep
 Preparation Date: 10/19/2022 3:00:00 PM

| Analyte | MDL | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | - | % REC High Limit | %RPD | % RPD Limit |
|---------------------------|-----|-------------------------------|--------|------|----------------------------------|--------------|-------|--------------------------------------|---|------------------|------|-------------|
| QA/QC Type: MB | | Lab Sample ID: BOD101922CMB | | | Client Sample ID: BOD101922CMB | | | Date Analyzed: 10/19/2022 3:00:00 PM | | | | |
| Biochemical Oxygen Demand | 1.0 | 1.0 | 2.0 | U | mg/L | | | | | | | |
| QA/QC Type: LCS | | Lab Sample ID: BOD101922CLCS | | | Client Sample ID: BOD101922CLCS | | | Date Analyzed: 10/19/2022 3:00:00 PM | | | | |
| Biochemical Oxygen Demand | 100 | 100 | 216 | | mg/L | 198 | 109 | 85 | - | 115 | | |
| QA/QC Type: LCSD | | Lab Sample ID: BOD101922CLCSD | | | Client Sample ID: BOD101922CLCSD | | | Date Analyzed: 10/19/2022 3:00:00 PM | | | | |
| Biochemical Oxygen Demand | 100 | 100 | 208 | | mg/L | 198 | 105 | 85 | - | 115 | 3.8 | 20 |
| QA/QC Type: DUP | | Lab Sample ID: BOD101922CDUP | | | Client Sample ID: 302284DUP | | | Date Analyzed: 10/19/2022 3:00:00 PM | | | | |
| Biochemical Oxygen Demand | 15 | 15 | 160 | | mg/L | | | | | | 6.1 | 20 |

Comments:

Chain of Custody Record

| Company: <i>City of Valdosta - Withlacoochee</i> | | | | Environmental Testing Laboratories, Inc. | | | | Page <i>1</i> of <i>1</i> | | | | | | | | | | | |
|--|----------------------|-----------------------|---------------|--|-------------------------------|---|-----------------|---|---------------|---------------------|---------------------------|-----------------|--|---------------------|-----------------|-----------------|----------------------|--|--|
| Address: <i>3180 Wetherington Lane, Vald., Ga. 31603</i> | | | |  ENVIRONMENTAL TESTING LABORATORIES, INC. | | 412 W. Walcott Street Thomasville, GA 31792-4359 | | Project Name: | | | | | | | | | | | |
| Telephone Number: | | Telefax Number: | | www.etl-inc.com | | 229/228-2592 (telephone) 229/228-2594 (telefax) | | Project Number: | | | | | | | | | | | |
| Sampled by [Print Name(s)] / Affiliation <i>Joseph Davala</i> | | | | Analyses Requested | | | | Project Manager: | | | | | | | | | | | |
| Sampler(s) Signature(s) <i>[Signature]</i> | | | | <i>5 day b.o.d.</i> | | | | Facility ID Number: | | | | | | | | | | | |
| | | | | | | | | REQUESTED DUE DATE <i>10, 26, 22</i> | | Remarks | | Lab Number | | | | | | | |
| Item No. | Field ID No. | Sample | | Grab or Composite | Matrix (see Codes) | Number of Containers | | | | | | | | | | | Remarks | Lab Number | |
| | | Date | Time | | | | | | | | | | | | | | | | |
| <i>1</i> | <i>1 Filter Int.</i> | <i>10-19-22</i> | <i>8:10am</i> | <i>Comp.</i> | <i>ww</i> | <i>1</i> | | | | | | | | | | | <i>Withlacoochee</i> | <i>302292</i> | |
| | <i>2 Filter EA</i> | <i>10-19-22</i> | <i>8:10am</i> | <i>Comp.</i> | <i>ww</i> | <i>1</i> | | | | | | | | | | | | <i>1 293</i> | |
| | <i>3 Plant EA</i> | <i>10-19-22</i> | <i>8:10am</i> | <i>Comp.</i> | <i>ww</i> | <i>1</i> | | | | | | | | | | | | <i>1 294</i> | |
| Shipment Method | | | | Total Number of Containers | | <i>3</i> | | | | | | | | | | | | ← Preservatives (see Codes) ICE: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Out: | <i>/ /</i> | Via: | Item No. | | Relinquished by / Affiliation | | Date | | Time | | Accepted by / Affiliation | | | | Date | | Time | | |
| Returned: | <i>/ /</i> | Via: | <i>1</i> | | <i>[Signature]</i> | | <i>10-19-22</i> | | <i>8:46am</i> | | <i>[Signature]</i> | | | | <i>10/19/22</i> | | <i>8:46</i> | | |
| Additional Comments: | | | | | <i>[Signature]</i> | | <i>10/19/22</i> | | <i>12:15</i> | | | | | | | | | | |
| | | | | Cooler Number(s) / Temperature(s) (°C) | | <i>2 x 7</i> | | Sampling Kit Number | | Received in Lab By: | | | | <i>[Signature]</i> | | <i>10/19/22</i> | <i>12:15</i> | | |
| MATRIX CODES: | | A = Air | | GW = Groundwater | | SE = Sediment | | SO = Soil | | SW = Surface Water | | WW = Wastewater | | O = Other (specify) | | | | | |
| PRESERVATIVE CODES: | | H = Hydrochloric acid | | S = Sulfuric acid | | N = Nitric | | Na = Sodium Hydroxide | | O = Other (specify) | | | | | | | | | |
| PRESERVATIVE CODES: | | SOIL VOCS | | MS = Methanol / Sodium Bisulfate | | MD = Methanol / DI Water | | | | | | ETL PROJECT NO. | | <i>22-39146</i> | | | | | |



Project Receipt Summary

22-3946

Project Details

Client: CITY OF VALDOSTA

Project Name: WITHLACOOCHEE

Shipping and Receiving

Date/Time Received: 10/19/2022 12:15:00 PM If present, were cooler custody seals intact?

Sampling Personnel: JOSEPH D. Yes No N/A

Shipping Method: Laboratory Courier If present, were sample bottle custody seals intact

Shipping Tracking Number: Yes No N/A

Thermal Preservation

Cooler Temp Method: Sample Temperature Were cooler temperatures in compliance? (0.1-6.0C)

Thermometer ID: 160372413 Yes No N/A

Number of Coolers: 1 Cooler Temperatures: 2.7

Chain of Custody

Was the chain-of-custody received in coolers? Yes No N/A

Was the chain-of-custody signed and properly relinquished? Yes No N/A

Does the chain-of-custody agree with samples and analyses? Yes No N/A

Container Receipt

Were samples received in appropriate bottleware for analyses? Yes No N/A

Was sufficient volume submitted for analyses requested? Yes No N/A

Were samples received within method holding times? Yes No N/A

Were VOA vials received with zero headspace? Yes No N/A

Were aqueous samples received at an acceptable pH? Yes No N/A

pH Test Strip Manufacturer / Lot #: MQUANT/HC04265Z

Comments

I certify I have answered the questions contained herein to the best of my knowledge and have affixed labels with unique IDs onto each sample container received. I certify any discrepancies regarding the samples as received by the laboratory have been documented completely in the comments section of this form.

Mitchell Foo



ENVIRONMENTAL TESTING LABORATORIES, INC

Project Receipt Summary

22-3946

Project Sample Detail

| Lab Sample ID | Client Sample ID | Matrix | SPLP | TRPH Speciation | MaVPH MaEPH |
|---------------------------|------------------|--------------------|--------------------------|--------------------------|--------------------------|
| 302292 302292-E1 (BOD) | 1 FILTER INF | AQUEOUS-Wastewater | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 302293 302293-E1 (BOD) | 2 FILTER EFF | AQUEOUS-Wastewater | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 302294 302294-E1 (BOD) | 3 PLANT EFF | AQUEOUS-Wastewater | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



ENVIRONMENTAL TESTING LABORATORIES INC

Project Receipt Summary

22-3946

Project Bottle Count Summary

| Container Type | Preservative | Number of Containers |
|----------------|--------------|----------------------|
| HDPE Plastic | NONE | 3 |
| Total | | 3 |