

Chemical Analysis Report

TLH-ROC-2021-03-04-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 3**
Request ID: **RQ-2021-02-15-45**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 25-MAR-2021 17:47



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Nutrients.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

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

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Fenholloway River

Collection Date/Time: 03/04/2021 12:45

Field ID: G1TLHR0030

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2229251	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P394501	
	EPA 300.0 Rev. 2.1	Chloride	4.6		mg Cl/L	P394698	
		Sulfate	0.99		mg SO4/L	P394700	
	SM 2120 B-2011	Color (true)	750		PCU	P394497	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P394733	
	SM 2540 C-2011	TDS	121		mg/L	P394830	
	SM 2540 D-2011	TSS	2	U	mg/L	P394835	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P394738	
2229252	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P394632	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P395140	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P394619	
	EPA 365.1 Rev. 2.0	Total-P	0.054	J	mg P/L	P394654	MS
	SM 5310 B-2011	Organic Carbon	54		mg C/L	P395016	
2229253	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.036		mg P/L	P394491	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P394501

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P394698

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P394700

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P394632

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395140

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P394619

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P394654

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P394491

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: SM 2120 B-2011
Batch ID: P394497

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P394733

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P394830

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P394835

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P394738

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P395016

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P394698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P394700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P394632

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395140

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P394619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P394654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P394491

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.7		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P394497

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P394733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	93 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P394738

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P395016

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P394698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2228774	Chloride	99.7		P	90 - 110
2228990	Chloride	92.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P394700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2228774	Sulfate	96.3		P	90 - 110
2228990	Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P394632

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2229269	Ammonia-N	97.0	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395140

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2230408	Kjeldahl Nitrogen	97.2	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P394619

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2229003	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P394654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2229252	Total-P	114	110	F/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P394491

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2228941	O-Phosphate-P	100	99.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P394738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2229519	Fluoride	98.5	96.8	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P395016

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2228991	Organic Carbon	96.0	94.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P394501

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2228990	Turbidity	2.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P394698

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2228774	Chloride	0.911	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P394700

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2228774	Sulfate	0.456	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P394632

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2229269	Ammonia-N	0.749	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P395140

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2230408	Kjeldahl Nitrogen	0.842	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P394619

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2229003	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P394654

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2229252	Total-P	3.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P394491

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2228941	O-Phosphate-P	0.901	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P394497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2228990	Color (true)	3.29	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P394733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2229519	Total Alkalinity	0.827	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P394830

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2229453	TDS	3.91	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P394738

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2229519	Fluoride	0.946	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P395016

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2228991	Organic Carbon	1.02	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A103892

Included Lab Sample IDs: 2229253

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.0	99.2	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A103893

Included Lab Sample IDs: 2229251

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	104	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A103894

Included Lab Sample IDs: 2229251

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A103943

Included Lab Sample IDs: 2229252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A103952

Included Lab Sample IDs: 2229252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	98.3	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A103974

Included Lab Sample IDs: 2229251

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Sulfate	99.4	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A103988

Included Lab Sample IDs: 2229252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	105	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A103989

Included Lab Sample IDs: 2229251

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.5	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A103989

Included Lab Sample IDs: 2229251

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A104080

Included Lab Sample IDs: 2229252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.8	94.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A104201

Included Lab Sample IDs: 2229252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	103	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				2.35	
EPA 300.0 Rev. 2.1	Chloride	101	99.7	92.4	0.911	
	Sulfate	98.8	96.3	98.6	0.456	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	97.0	97.8		0.749
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.9	97.2	98.1		0.842
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	100	100		0.0
EPA 365.1 Rev. 2.0	Total-P	106	114	110		3.52
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.7	100	99.4		0.901
SM 2120 B-2011	Color (true)	101			3.29	
SM 2320 B-2011	Total Alkalinity	99.3			0.827	
SM 2540 C-2011	TDS				3.91	
SM 4500 F-C-2011	Fluoride	99.6	98.5	96.8		0.946
SM 5310 B-2011	Organic Carbon	94.3	96.0	94.6		1.02

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2229251
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2229251
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2229251
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2229252
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2229252
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2229252
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2229252
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2229253
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2229251
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2229251
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2229251
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2229251
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2229251
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2229252

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	03/04/2021			03/04/2021 16:10	Yen Ta	2229251
EPA 300.0 Rev. 2.1	03/04/2021			03/08/2021 23:13	Lipi Saha	2229251
EPA 350.1 Rev. 2.0	03/04/2021			03/08/2021 17:07	Ping Hua	2229252
EPA 351.2 Rev. 2.0	03/04/2021	03/18/2021 12:47	Benjamin T. Nordmann	03/22/2021 14:25	Julia Storbeck	2229252
EPA 353.2 Rev. 2.0	03/04/2021			03/08/2021 11:08	Beverly Y. Sanders	2229252
EPA 365.1 Rev. 2.0	03/04/2021	03/09/2021 11:56	Yen Ta	03/10/2021 13:56	Shengyu Ding	2229252
EPA 365.1 Rev. 2.0 dissolved	03/04/2021			03/04/2021 15:05	Blanca Fach	2229253
SM 2120 B-2011	03/04/2021			03/04/2021 16:22	Benjamin T. Nordmann	2229251
SM 2320 B-2011	03/04/2021			03/10/2021 00:17	Dale L. Simmons	2229251
SM 2540 C-2011	03/04/2021			03/08/2021 14:25	Yijie Li	2229251
SM 2540 D-2011	03/04/2021			03/08/2021 14:25	Yijie Li	2229251
SM 4500 F-C-2011	03/04/2021			03/10/2021 00:17	Dale L. Simmons	2229251
SM 5310 B-2011	03/04/2021			03/16/2021 02:34	Madeline Gruver	2229252