

Chemical Analysis Report

TLH-ROC-2019-05-01-03

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

Event Description: **Run 6**
Request ID: **RQ-2019-04-29-71**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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Date Certified: 16-MAY-2019 16:26



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: DUNFORD LAKE

Collection Date/Time: 05/01/2019 12:45

Field ID: G3TLHR0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2082396	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P363260	
	EPA 300.0 Rev. 2.1	Chloride	2.0		mg Cl/L	P363743	
		Sulfate	0.67		mg SO4/L	P363747	
	SM 2120 B	Color (true)	31	A	PCU	P363280	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P363868	
	SM 2540 C-97	TDS	24	I	mg/L	P363820	
	SM 2540 D-97	TSS	2	U	mg/L	P363831	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P363761	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P363625	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31		mg N/L	P363550	
2082397	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P363309	
	EPA 365.1 Rev. 2.0	Total-P	0.005	I	mg P/L	P363349	
	SM 5310 B-00	Organic Carbon	5.4		mg C/L	P363354	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P363274	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P363260

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P363743

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P363747

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P363625

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P363550

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P363309

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P363349

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P363274

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

Reference Method: SM 2120 B
Batch ID: P363280

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P363868

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

Reference Method: SM 2540 C-97
Batch ID: P363820

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P363831

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P363761

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P363354

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: P363743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P363747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P363625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P363550

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P363309

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P363349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P363274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.8		P	90 - 110

Reference Method: SM 2120 B
 Batch ID: P363280

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	85 - 115

Reference Method: SM 2320 B-97
 Batch ID: P363868

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P363761

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P363354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P363743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082330	Chloride	99.4		P	90 - 110
2082411	Chloride	94.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P363747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082330	Sulfate	99.4		P	90 - 110
2082411	Sulfate	96.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P363625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082397	Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P363550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082397	Kjeldahl Nitrogen	102	96.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P363309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082331	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P363349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082342	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P363274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082797	O-Phosphate-P	96.2	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P363761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082695	Fluoride	98.3	98.3	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P363354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2082331	Organic Carbon	104	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P363260

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082500	Turbidity	8.70	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P363743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082411	Chloride	0.130	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P363747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082411	Sulfate	0.345	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P363625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082397	Ammonia-N	0.187	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P363550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082397	Kjeldahl Nitrogen	4.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P363309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082331	NO2NO3-N	0.288	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P363349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082342	Total-P	0.394	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P363274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082797	O-Phosphate-P	1.96	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P363280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082396	Color (true)	1.76	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P363868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082695	Total Alkalinity	0.0473	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P363820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082104	TDS	2.60	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P363761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082695	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P363354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2082331	Organic Carbon	2.53	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
 Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A91163

Included Lab Sample IDs: 2082396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A91167

Included Lab Sample IDs: 2082398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.6	96.4	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A91168

Included Lab Sample IDs: 2082396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.8	101	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A91184

Included Lab Sample IDs: 2082397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A91203

Included Lab Sample IDs: 2082397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	99.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A91228

Included Lab Sample IDs: 2082396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	97.4	P/P	90 - 110
Sulfate	101	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A91255

Included Lab Sample IDs: 2082397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A91300

Included Lab Sample IDs: 2082397

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A91333

Included Lab Sample IDs: 2082397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.4	97.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A91346

Included Lab Sample IDs: 2082396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.1	99.5	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A91397

Included Lab Sample IDs: 2082396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.1	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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					8.70	
EPA 300.0 Rev. 2.1	Chloride	99.0	94.8	99.4		0.130	
	Sulfate	98.4	96.3	99.4		0.345	
EPA 350.1 Rev. 2.0	Ammonia-N	99.9	103	103			0.187
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.4	102	96.6			4.30
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	102	101			0.288
EPA 365.1 Rev. 2.0	Total-P	98.2	102	102			0.394
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.8	96.2	98.1			1.96
SM 2120 B	Color (true)	99.9				1.76	
SM 2320 B-97	Total Alkalinity	102				0.0473	
SM 2540 C-97	TDS					2.60	
SM 4500 F-C-97	Fluoride	97.5	98.3	98.3			0.0
SM 5310 B-00	Organic Carbon	100	104	100			2.53

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2082396
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2082396
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2082396
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2082397
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2082397
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2082397
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2082397
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2082398
SM 2120 B / E31780	True Color measured at 450 nm	2082396
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2082396
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2082396
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2082396
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2082396
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2082397

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	05/01/2019			05/02/2019 16:16	Adrian Shelby	2082396
EPA 300.0 Rev. 2.1	05/01/2019			05/09/2019 17:06	Lipi Saha	2082396
EPA 350.1 Rev. 2.0	05/01/2019			05/07/2019 12:27	Ping Hua	2082397
EPA 351.2 Rev. 2.0	05/01/2019	05/07/2019 12:00	Adrian Shelby	05/09/2019 10:01	Joseph Suarez	2082397
EPA 353.2 Rev. 2.0	05/01/2019			05/03/2019 10:14	Beverly Y. Sanders	2082397
EPA 365.1 Rev. 2.0	05/01/2019	05/03/2019 12:30	Sima Feizi	05/07/2019 14:11	Beverly Y. Sanders	2082397
EPA 365.1 Rev. 2.0 dissolved	05/01/2019			05/02/2019 16:49	Jhamieka S. Greenwood	2082398
SM 2120 B	05/01/2019			05/02/2019 14:17	Mariam Hanna	2082396
SM 2320 B-97	05/01/2019			05/14/2019 00:26	Dale L. Simmons	2082396
SM 2540 C-97	05/01/2019			05/03/2019 15:19	Yijie Li	2082396
SM 2540 D-97	05/01/2019			05/03/2019 15:19	Yijie Li	2082396
SM 4500 F-C-97	05/01/2019			05/09/2019 12:00	Dale L. Simmons	2082396
SM 5310 B-00	05/01/2019			05/04/2019 01:31	Lauren Lees	2082397