

Chemical Analysis Report

CEN-DIST-2020-09-03-02

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

Event Description: **Puzzle Lake Drain**
Request ID: **RQ-2020-08-31-43**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Kalina Warren

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 23-SEP-2020 10:30

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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: Boggy Creek 1100m S of Boggy Creek Road

Collection Date/Time: 09/02/2020 10:40

Field ID: G4CE0127

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2194032	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P386931	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P387637	
		Sulfate	5.0		mg SO4/L	P387639	
	SM 2120 B-2011	Color (true)	100		PCU	P386935	
	SM 2320 B-2011	Total Alkalinity	42		mg CaCO3/L	P387119	
	SM 2540 C-2011	TDS	108		mg/L	P387215	
	SM 2540 D-2011	TSS	2	U	mg/L	P387164	
	SM 4500 F-C-2011	Fluoride	0.073	I	mg F/L	P387122	
2194033	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P387035	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.55		mg N/L	P387235	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P387074	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P386974	MS
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P387200	
2194034	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.018		mg P/L	P386946	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: 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: P386931

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387637

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387639

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387035

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387235

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387074

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386974

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386946

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

Reference Method: SM 2120 B-2011
Batch ID: P386935

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P387119

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

Reference Method: SM 2540 C-2011
Batch ID: P387215

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P387164

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P387122

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P387200

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: P387637

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	93.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387639

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	93.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387035

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	105		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386974

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386946

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

Reference Method: SM 2120 B-2011
Batch ID: P386935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.0		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P387119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P387122

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.4		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P387200

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387637

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193961	Chloride	96.2		P	90 - 110
2193993	Chloride	93.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387639

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193961	Sulfate	95.6		P	90 - 110
2193993	Sulfate	94.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387035

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2194020	Ammonia-N	96.7	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2194072	Kjeldahl Nitrogen	97.8	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387074

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2194023	NO2NO3-N	96.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193720	Total-P	109	111	P/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386946

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2194021	O-Phosphate-P	100	99.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P387122

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2194066	Fluoride	97.3	97.9	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P387200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2194023	Organic Carbon	95.1	96.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193961	Turbidity	4.90	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387637

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193993	Chloride	0.413	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194020	Ammonia-N	2.20	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194072	Kjeldahl Nitrogen	1.61	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194023	NO2NO3-N	0.216	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193720	Total-P	1.92	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194021	O-Phosphate-P	0.601	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P386935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194019	Color (true)	2.77	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P387119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194066	Total Alkalinity	0.527	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P387215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194055	TDS	0.506	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P387164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194055	TSS	2.44	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P387122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194066	Fluoride	0.462	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P387200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2194023	Organic Carbon	1.40	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A100810

Included Lab Sample IDs: 2194032

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

Reference Method: SM 2120 B-2011

Run ID: A100812

Included Lab Sample IDs: 2194032

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.3	98.3	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100813

Included Lab Sample IDs: 2194034

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100836

Included Lab Sample IDs: 2194033

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.8	96.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100845

Included Lab Sample IDs: 2194033

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A100870

Included Lab Sample IDs: 2194032

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	102	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A100870

Included Lab Sample IDs: 2194032

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	97.7	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A100906

Included Lab Sample IDs: 2194033

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	93.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100963

Included Lab Sample IDs: 2194033

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.5	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100971

Included Lab Sample IDs: 2194033

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100980

Included Lab Sample IDs: 2194032

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Sulfate	99.7	99.8	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					4.90	
EPA 300.0 Rev. 2.1	Chloride	93.6	93.7	96.2		0.413	
	Sulfate	93.6	94.2	95.6			
EPA 350.1 Rev. 2.0	Ammonia-N	98.3	96.7	99.1			2.20
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	97.8	99.8			1.61
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	96.5				0.216
EPA 365.1 Rev. 2.0	Total-P	105	109	111			1.92
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	100	99.6			0.601
SM 2120 B-2011	Color (true)	97.0				2.77	
SM 2320 B-2011	Total Alkalinity	101				0.527	
SM 2540 C-2011	TDS					0.506	
SM 2540 D-2011	TSS					2.44	
SM 4500 F-C-2011	Fluoride	98.4	97.3	97.9			0.462
SM 5310 B-2011	Organic Carbon	95.4	95.1	96.8			1.40

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2194032
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2194032
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2194032
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2194033
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2194033
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2194033
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2194033
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2194034
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2194032
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2194032
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2194032
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2194032
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2194032
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2194033

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	09/03/2020			09/03/2020 14:41	Yen Ta	2194032
EPA 300.0 Rev. 2.1	09/03/2020			09/18/2020 17:40	Lipi Saha	2194032
EPA 350.1 Rev. 2.0	09/03/2020			09/07/2020 14:22	Ping Hua	2194033
EPA 351.2 Rev. 2.0	09/03/2020	09/11/2020 10:15	Sima Feizi	09/14/2020 11:19	Elliott Rodriguez	2194033
EPA 353.2 Rev. 2.0	09/03/2020			09/08/2020 11:35	Beverly Y. Sanders	2194033
EPA 365.1 Rev. 2.0	09/03/2020	09/04/2020 11:45	Yen Ta	09/11/2020 15:01	Lipi Saha	2194033
EPA 365.1 Rev. 2.0 dissolved	09/03/2020			09/03/2020 17:21	Virginia P. Brown	2194034
SM 2120 B-2011	09/03/2020			09/03/2020 15:53	Benjamin T. Nordmann	2194032
SM 2320 B-2011	09/03/2020			09/04/2020 19:34	Dale L. Simmons	2194032
SM 2540 C-2011	09/03/2020			09/04/2020 16:59	Madeline Gruver	2194032
SM 2540 D-2011	09/03/2020			09/04/2020 19:04	Madeline Gruver	2194032
SM 4500 F-C-2011	09/03/2020			09/04/2020 19:34	Dale L. Simmons	2194032
SM 5310 B-2011	09/03/2020			09/10/2020 04:09	David Boose	2194033