Chemical Analysis Report

CEN-DIST-2020-01-24-01

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

Event Description: **Little Creek**
Request ID: **RQ-2020-01-13-25**
Customer: **CEN-DIST**
Project ID: **SMP**

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Date Certified: 12-FEB-2020 09:22

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: Bull Creek @ Upstream of 441 Bridge **Collection Date/Time: 01/23/2020 10:41**

Field ID: G3CE0009 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151539	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P377785	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P378150	
		Sulfate	3.4		mg SO4/L	P378155	
	SM 2120 B-2011	Color (true)	250		PCU	P377717	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P378050	
	SM 2540 C-2011	TDS	109	A	mg/L	P378248	
	SM 2540 D-2011	TSS	2	U	mg/L	P377864	
	SM 4500 F-C-2011	Fluoride	0.037	I	mg F/L	P378054	
2151540	EPA 350.1 Rev. 2.0	Ammonia-N	0.068		mg N/L	P378180	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P378170	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.052		mg N/L	P377936	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P378026	
	SM 5310 B-2011	Organic Carbon	30		mg C/L	P377956	
2151541	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.099		mg P/L	P377758	

Ref. Method and Comment:
SM 2540 D-2011: 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: P377785

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378150

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378155

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378180

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378170

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377936

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378026

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377758

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

Reference Method: SM 2120 B-2011
Batch ID: P377717

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P378050

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P378248

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P377864

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P378054

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P377956

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: P378150

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378155

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378180

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378170

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.1		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377936

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: P378026

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: P377758

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

Reference Method: SM 2120 B-2011
Batch ID: P377717

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P378050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P378054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.3		P	92 - 103

Reference Method: SM 5310 B-2011
Batch ID: P377956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151408	Chloride	99.8		P	90 - 110
2151539	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151408	Sulfate	101		P	90 - 110
2151539	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378180

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151199	Ammonia-N	97.1	95.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151489	Kjeldahl Nitrogen	103	113	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151467	NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378026

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151418	Total-P	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377758

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151490	O-Phosphate-P	96.3	97.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P378054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2152124	Fluoride	96.2	96.7	P/P	89 - 106

Reference Method: SM 5310 B-2011
Batch ID: P377956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151547	Organic Carbon	95.8	97.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P377785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151581	Turbidity	2.67	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151408	Chloride	0.701	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151408	Sulfate	0.930	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378180

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151199	Ammonia-N	0.947	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151489	Kjeldahl Nitrogen	9.19	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151467	NO2NO3-N	0.317	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378026

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151418	Total-P	0.853	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377758

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151490	O-Phosphate-P	0.718	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B-2011
Batch ID: P377717

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151510	Color (true)	0.282	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P378050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2152124	Total Alkalinity	0.844	Sample	P	0 - 2.8

Reference Method: SM 2540 C-2011
Batch ID: P378248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151539	TDS	1.83	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P378054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2152124	Fluoride	0.484	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
Batch ID: P377956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151547	Organic Carbon	1.12	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 2120 B-2011
Run ID: A97115
Included Lab Sample IDs: 2151539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	101	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A97136
Included Lab Sample IDs: 2151541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.6	98.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A97142
Included Lab Sample IDs: 2151539

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A97170
Included Lab Sample IDs: 2151539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.2	99.1	P/P	90 - 110
Sulfate	99.9	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A97186
Included Lab Sample IDs: 2151540

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

Reference Method: SM 5310 B-2011
Run ID: A97198
Included Lab Sample IDs: 2151540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	98.0	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A97228
Included Lab Sample IDs: 2151539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A97228
Included Lab Sample IDs: 2151539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	101	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A97275
Included Lab Sample IDs: 2151540

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A97280
Included Lab Sample IDs: 2151540

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A97298
Included Lab Sample IDs: 2151540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.7	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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					2.67	
EPA 300.0 Rev. 2.1	Chloride	99.4	99.8	101		0.701	
	Sulfate	101	101	101		0.930	
EPA 350.1 Rev. 2.0	Ammonia-N	97.7	97.1	95.5			0.947
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.1	103	113			9.19
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	99.5			0.317
EPA 365.1 Rev. 2.0	Total-P	106	106	107			0.853
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	96.3	97.2			0.718
SM 2120 B-2011	Color (true)	99.2				0.282	
SM 2320 B-2011	Total Alkalinity	103				0.844	
SM 2540 C-2011	TDS					1.83	
SM 4500 F-C-2011	Fluoride	96.3	96.2	96.7			0.484
SM 5310 B-2011	Organic Carbon	99.2	95.8	97.0			1.12

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2151539
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2151539
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2151539
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2151540
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2151540
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2151540
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2151540
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2151541
SM 2120 B-2011 / E31780	True Color measured at 450 nm (not valid for NPDES monitoring)	2151539
SM 2320 B-2011 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2151539
SM 2540 C-2011 / E31780	Total Dissolved Solids in aqueous matrices	2151539
SM 2540 D-2011 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2151539
SM 4500 F-C-2011 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2151539
SM 5310 B-2011 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2151540

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	01/24/2020			01/24/2020 16:34	Yen Ta	2151539
EPA 300.0 Rev. 2.1	01/24/2020			01/30/2020 16:31	Lipi Saha	2151539
EPA 350.1 Rev. 2.0	01/24/2020			02/03/2020 13:35	Ping Hua	2151540
EPA 351.2 Rev. 2.0	01/24/2020	02/03/2020 11:45	Jhamieka S. Greenwood	02/04/2020 11:09	Jhamieka S. Greenwood	2151540
EPA 353.2 Rev. 2.0	01/24/2020			01/29/2020 09:54	Beverly Y. Sanders	2151540
EPA 365.1 Rev. 2.0	01/24/2020	01/30/2020 14:58	Yen Ta	01/31/2020 15:16	Benjamin T. Nordmann	2151540
EPA 365.1 Rev. 2.0 dissolved	01/24/2020			01/24/2020 16:42	Carlos Miranda	2151541
SM 2120 B-2011	01/24/2020			01/24/2020 18:04	Madeline Funaro	2151539
SM 2320 B-2011	01/24/2020			01/29/2020 22:06	Dale L. Simmons	2151539
SM 2540 C-2011	01/24/2020			01/27/2020 16:10	Sima Feizi	2151539
SM 2540 D-2011	01/24/2020			01/27/2020 16:10	Sima Feizi	2151539
SM 4500 F-C-2011	01/24/2020			01/29/2020 22:06	Dale L. Simmons	2151539
SM 5310 B-2011	01/24/2020			01/29/2020 17:59	Madeline Funaro	2151540