

Chemical Analysis Report

SW-DIST-2019-04-04-01

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

Event Description: **Horse Creek HA**
Request ID: **RQ-2019-04-01-62**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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Date Certified: 24-APR-2019 16:06



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: HORSE CREEK ABOVE SR 64

Collection Date/Time: 04/03/2019 11:30

Field ID: G3SW0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2075870	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P361620	
	EPA 300.0 Rev. 2.1	Chloride	15	A	mg Cl/L	P362191	
		Sulfate	110		mg SO4/L	P362300	
	SM 2120 B	Color (true)	78		PCU	P361598	
	SM 2320 B-97	Total Alkalinity	121		mg CaCO3/L	P361985	
	SM 2540 C-97	TDS	339		mg/L	P362094	
	SM 2540 D-97	TSS	3	I	mg/L	P361872	
	SM 4500 F-C-97	Fluoride	0.56		mg F/L	P361988	
2075871	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P362115	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77		mg N/L	P362086	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.075		mg N/L	P362219	
	EPA 365.1 Rev. 2.0	Total-P	0.41		mg P/L	P362080	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P361779	
2075872	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.33		mg P/L	P361608	

Ref. Method and Comment:

SM 2120 B: 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: P361620

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362191

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362300

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P362115

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P362086

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P362219

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P362080

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P361608

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

Reference Method: SM 2120 B
Batch ID: P361598

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P361985

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

Reference Method: SM 2540 C-97
Batch ID: P362094

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P361872

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P361988

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P361779

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: P362191

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P362300

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P362115

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P362086

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P362219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P362080

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361608

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

Reference Method: SM 2120 B
 Batch ID: P361598

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

Reference Method: SM 2320 B-97
 Batch ID: P361985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.9		P	98 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P361988

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P361779

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362191

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075870	Chloride	93.9		P	90 - 110
2075958	Chloride	98.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2077065	Sulfate	102		P	90 - 110
2077229	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P362115

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075871	Ammonia-N	106	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P362086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075877	Kjeldahl Nitrogen	99.2	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P362219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075871	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P362080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2076121	Total-P	99.7	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P361608

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075569	O-Phosphate-P	93.5	94.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P361988

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075689	Fluoride	97.8	97.8	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P361779

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075757	Organic Carbon	99.4	99.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P361620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075814	Turbidity	7.95	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P362191

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075870	Chloride	0.129	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P362300

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2077229	Sulfate	1.18	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P362115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075871	Ammonia-N	2.91	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P362086

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075877	Kjeldahl Nitrogen	0.252	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P362219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075871	NO2NO3-N	0.719	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P362080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2076121	Total-P	0.0616	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361608

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075569	O-Phosphate-P	0.640	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P361985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075689	Total Alkalinity	0.159	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P362094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075718	TDS	0.266	Sample	P	0 - 10

Reference Method: SM 2540 D-97
 Batch ID: P361872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075718	TSS	2.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P361988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075689	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P361779

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075757	Organic Carbon	0.150	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: SM 2120 B
Run ID: A90452
Included Lab Sample IDs: 2075870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	100	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A90461
Included Lab Sample IDs: 2075872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.0	95.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A90465
Included Lab Sample IDs: 2075870

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A90538
Included Lab Sample IDs: 2075870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	100	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A90539
Included Lab Sample IDs: 2075871

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

Reference Method: SM 2320 B-97
Run ID: A90626
Included Lab Sample IDs: 2075870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	99.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A90626
Included Lab Sample IDs: 2075870

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A90707
Included Lab Sample IDs: 2075871

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A90718

Included Lab Sample IDs: 2075871

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.3	94.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A90722

Included Lab Sample IDs: 2075871

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A90746

Included Lab Sample IDs: 2075871

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A90760

Included Lab Sample IDs: 2075870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	101	102	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					7.95	
EPA 300.0 Rev. 2.1	Chloride	99.1	93.9	98.0		0.129	
	Sulfate	102	100	102		1.18	
EPA 350.1 Rev. 2.0	Ammonia-N	103	106	102			2.91
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.8	99.2	98.8			0.252
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	103	101	102			0.719
EPA 365.1 Rev. 2.0	Total-P	103	99.7	99.6			0.0616
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.6	93.5	94.1			0.640
SM 2120 B	Color (true)	101					
SM 2320 B-97	Total Alkalinity	99.9				0.159	
SM 2540 C-97	TDS					0.266	
SM 2540 D-97	TSS					2.67	
SM 4500 F-C-97	Fluoride	98.0	97.8	97.8			0.0
SM 5310 B-00	Organic Carbon	101	99.4	99.6			0.150

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2075870
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2075870
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2075870
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2075871
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2075871
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2075871
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2075871
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2075872
SM 2120 B / E31780	True Color measured at 450 nm	2075870
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2075870
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2075870
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2075870
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2075870
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2075871

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	04/04/2019			04/04/2019 15:03	Adrian Shelby	2075870
EPA 300.0 Rev. 2.1	04/04/2019			04/12/2019 16:08	Lipi Saha	2075870
	04/04/2019			04/16/2019 15:55	Lipi Saha	2075870
EPA 350.1 Rev. 2.0	04/04/2019			04/12/2019 11:54	Ping Hua	2075871
EPA 351.2 Rev. 2.0	04/04/2019	04/12/2019 14:20	Adrian Shelby	04/15/2019 13:58	Joseph Suarez	2075871
EPA 353.2 Rev. 2.0	04/04/2019			04/16/2019 10:16	Beverly Y. Sanders	2075871
EPA 365.1 Rev. 2.0	04/04/2019	04/12/2019 15:40	Sima Feizi	04/15/2019 14:03	Rosalyn Ballman	2075871
EPA 365.1 Rev. 2.0 dissolved	04/04/2019			04/04/2019 16:36	Jhamieka S. Greenwood	2075872
SM 2120 B	04/04/2019			04/04/2019 15:52	Blanca Fach	2075870
SM 2320 B-97	04/04/2019			04/11/2019 11:38	Dale L. Simmons	2075870
SM 2540 C-97	04/04/2019			04/05/2019 17:22	Mariam Hanna	2075870
SM 2540 D-97	04/04/2019			04/05/2019 15:54	Mariam Hanna	2075870
SM 4500 F-C-97	04/04/2019			04/11/2019 11:38	Dale L. Simmons	2075870
SM 5310 B-00	04/04/2019			04/09/2019 00:14	Julia Storbeck	2075871