Chemical Analysis Report

CEN-DIST-2018-05-03-01

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

Event Description: **Mirror + LVI / Felter**
Request ID: **RQ-2018-04-30-36**
Customer: **CEN-DIST**
Project ID: **SMP**

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Date Certified: 16-MAY-2018 10:33

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 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: MIRROR LAKE @ CENTER OF NORTH LOBE **Collection Date/Time: 05/02/2018 11:46**

Field ID: G1CE0041 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1989752	EPA 180.1 Rev. 2.0	Turbidity	0.85		NTU	P344608	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P344995	
		Sulfate	26		mg SO4/L	P344999	
	SM 2120 B	Color (true)	10		PCU	P344578	
	SM 2320 B-97	Total Alkalinity	14		mg CaCO3/L	P345083	
	SM 2540 C-97	TDS	103		mg/L	P345216	
	SM 2540 D-97	TSS	2	U	mg/L	P344817	
	SM 4500 F-C-97	Fluoride	0.097	I	mg F/L	P345086	
1989754	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P344952	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P344764	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P344696	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P344701	
	SM 5310 B-00	Organic Carbon	7.1		mg C/L	P345107	
1989756	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P344633	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LAKE FELTER @ CENTER **Collection Date/Time: 05/02/2018 12:55**

Field ID: G1CE0042 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1989753	EPA 180.1 Rev. 2.0	Turbidity	0.85		NTU	P344608	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P344995	
		Sulfate	3.2		mg SO4/L	P344999	
	SM 2120 B	Color (true)	100		PCU	P344578	
	SM 2320 B-97	Total Alkalinity	20		mg CaCO3/L	P345083	
	SM 2540 C-97	TDS	126	A	mg/L	P345216	
	SM 2540 D-97	TSS	2	UA	mg/L	P344817	
	SM 4500 F-C-97	Fluoride	0.085	I	mg F/L	P345086	
1989755	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P344952	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P344767	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.052		mg N/L	P344696	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P344701	
	SM 5310 B-00	Organic Carbon	32		mg C/L	P345107	
1989757	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P344633	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P344608

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344995

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344999

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344952

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344764

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344767

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344696

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344701

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P344633

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2120 B
Batch ID: P344578

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P345083

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

Reference Method: SM 2540 C-97
Batch ID: P345216

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P344817

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P345086

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P345107

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: P344995

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344999

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: P344952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	107		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344764

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344767

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344696

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344701

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: P344633

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.5		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P345083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P345086

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.2		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P345107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1989709	Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344999

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1989629	Sulfate	95.1		P	90 - 110
1989709	Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1989710	Ammonia-N	104	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344764

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1989743	Kjeldahl Nitrogen	99.0	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344767

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1990053	Kjeldahl Nitrogen	95.3	96.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344696

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1989749	NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P344633

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1989490	O-Phosphate-P	98.0	98.6	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P345086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1990181	Fluoride	96.6	97.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P345107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1989211	Organic Carbon	99.7	102	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P344608

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989684	Turbidity	5.34	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989629	Chloride	0.100	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344999

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989629	Sulfate	0.169	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989710	Ammonia-N	0.0326	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989743	Kjeldahl Nitrogen	2.41	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1990053	Kjeldahl Nitrogen	1.07	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989749	NO2NO3-N	1.50	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989743	Total-P	0.344	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P344633

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989490	O-Phosphate-P	0.543	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P344578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989684	Color (true)	0.623	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P345083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1990181	Total Alkalinity	0.836	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P345216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989753	TDS	1.59	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P345086

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1990181	Fluoride	0.953	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P345107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1989211	Organic Carbon	1.42	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: A83634
Included Lab Sample IDs: 1989752, 1989753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.7	P/P	90 - 115

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A83641
Included Lab Sample IDs: 1989752, 1989753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A83654
Included Lab Sample IDs: 1989756, 1989757

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A83674
Included Lab Sample IDs: 1989754, 1989755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A83732
Included Lab Sample IDs: 1989752, 1989753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	103	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A83735
Included Lab Sample IDs: 1989754, 1989755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A83751
Included Lab Sample IDs: 1989754, 1989755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.9	92.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A83773
Included Lab Sample IDs: 1989754, 1989755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	103	104	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A83814
Included Lab Sample IDs: 1989752, 1989753

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500 F-C-97
Run ID: A83814
Included Lab Sample IDs: 1989752, 1989753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	99.0	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A83819
Included Lab Sample IDs: 1989754, 1989755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	99.6	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					5.34	
EPA 300.0 Rev. 2.1	Chloride	99.6	98.7			0.100	
	Sulfate	98.8	95.1	97.3		0.169	
EPA 350.1 Rev. 2.0	Ammonia-N	107	104	104			0.0326
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	93.6	99.0	102			2.41
	Kjeldahl Nitrogen	98.0	95.3	96.7			1.07
EPA 353.2 Rev. 2.0	NO2NO3-N	101	99.0	100			1.50
EPA 365.1 Rev. 2.0	Total-P	103					0.344
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5	98.0	98.6			0.543
SM 2120 B	Color (true)					0.623	
SM 2320 B-97	Total Alkalinity	101				0.836	
SM 2540 C-97	TDS					1.59	
SM 4500 F-C-97	Fluoride	96.2	96.6	97.7			0.953
SM 5310 B-00	Organic Carbon	103	99.7	102			1.42

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1989752, 1989753
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1989752, 1989753
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1989752, 1989753
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1989754, 1989755
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1989754, 1989755
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1989754, 1989755
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1989754, 1989755

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1989756, 1989757
SM 2120 B / E31780	True Color measured at 450 nm	1989752, 1989753
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1989752, 1989753
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1989752, 1989753
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1989752, 1989753
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1989752, 1989753
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1989754, 1989755

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	05/03/2018			05/03/2018 15:50	William L. Brown IV	1989752, 1989753
EPA 300.0 Rev. 2.1	05/03/2018			05/09/2018 07:35	Lipi Saha	1989752
	05/03/2018			05/09/2018 07:47	Lipi Saha	1989753
EPA 350.1 Rev. 2.0	05/03/2018			05/09/2018 11:57	Ping Hua	1989754
	05/03/2018			05/09/2018 11:59	Ping Hua	1989755
EPA 351.2 Rev. 2.0	05/03/2018	05/07/2018 11:30	Adrian Shelby	05/08/2018 15:02	Joseph Suarez	1989754
	05/03/2018	05/07/2018 11:30	Adrian Shelby	05/08/2018 15:07	Joseph Suarez	1989755
EPA 353.2 Rev. 2.0	05/03/2018			05/04/2018 14:02	Lauren Bottorf	1989754
	05/03/2018			05/04/2018 14:03	Lauren Bottorf	1989755
EPA 365.1 Rev. 2.0	05/03/2018	05/04/2018 13:37	Sima Feizi	05/08/2018 11:34	Beverly Y. Sanders	1989754
	05/03/2018	05/04/2018 13:37	Sima Feizi	05/08/2018 11:35	Beverly Y. Sanders	1989755
EPA 365.1 Rev. 2.0 dissolved	05/03/2018			05/03/2018 15:15	Megan Treadwell	1989756
	05/03/2018			05/03/2018 15:16	Megan Treadwell	1989757
SM 2120 B	05/03/2018			05/03/2018 15:15	Tanya Welborn	1989752
	05/03/2018			05/03/2018 15:16	Tanya Welborn	1989753
SM 2320 B-97	05/03/2018			05/11/2018 06:23	Dale L. Simmons	1989752
	05/03/2018			05/11/2018 06:33	Dale L. Simmons	1989753
SM 2540 C-97	05/03/2018			05/04/2018 15:30	William L. Brown IV	1989752, 1989753
SM 2540 D-97	05/03/2018			05/04/2018 15:30	William L. Brown IV	1989752, 1989753
SM 4500 F-C-97	05/03/2018			05/11/2018 06:23	Dale L. Simmons	1989752
	05/03/2018			05/11/2018 06:33	Dale L. Simmons	1989753
SM 5310 B-00	05/03/2018			05/10/2018 20:08	Julia Storbeck	1989754
	05/03/2018			05/10/2018 20:21	Julia Storbeck	1989755