

Chemical Analysis Report

NE-DIST-2018-05-09-02

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

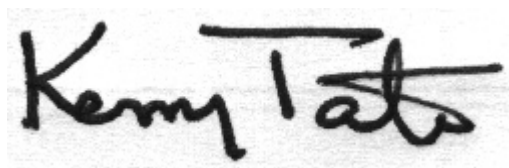
Event Description: **Gville**
Request ID: **RQ-2018-04-30-27**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 24-MAY-2018 11:56

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the "T" and a long horizontal stroke at the end.

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: Calf Pond Center

Collection Date/Time: 05/08/2018 14:10

Field ID: G1NE0862

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1991083	EPA 180.1 Rev. 2.0	Turbidity	1.7	A	NTU	P344973	
	EPA 300.0 Rev. 2.1	Chloride	13	A	mg Cl/L	P345211	
		Sulfate	8.4	A	mg SO4/L	P345214	
	SM 2120 B	Color (true)	150		PCU	P344967	
	SM 2320 B-97	Total Alkalinity	75	A	mg CaCO3/L	P345324	
	SM 2540 C-97	TDS	149	A	mg/L	P345667	
	SM 2540 D-97	TSS	3	IA	mg/L	P345653	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P345327	
1991085	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P345375	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P345121	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P345240	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P345014	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P345343	
1991087	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.046		mg P/L	P344975	

Ref. Method and Comment:

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

Sample Location: Moon Lake Center

Collection Date/Time: 05/08/2018 12:00

Field ID: G3NE0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1991084	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P344973	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P345211	
		Sulfate	15		mg SO4/L	P345214	
	SM 2120 B	Color (true)	64	A	PCU	P344968	
	SM 2320 B-97	Total Alkalinity	25		mg CaCO3/L	P345324	
	SM 2540 C-97	TDS	101		mg/L	P345666	
	SM 2540 D-97	TSS	2	I	mg/L	P345652	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P345327	
1991086	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P345375	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P345121	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P345240	
	EPA 365.1 Rev. 2.0	Total-P	0.37		mg P/L	P345014	
	SM 5310 B-00	Organic Carbon	8.8		mg C/L	P345343	
1991088	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.32		mg P/L	P344975	

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: P344973

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345211

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345214

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345375

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345121

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345240

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P345014

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P344975

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

Reference Method: SM 2120 B
Batch ID: P344967

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P344968

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P345324

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

Reference Method: SM 2540 C-97
Batch ID: P345666

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P345667

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P345652

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P345653

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P345327

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P345343

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: P345211

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345214

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345214

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345375

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345121

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345240

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: P345014

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P344975

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

Reference Method: SM 2320 B-97
Batch ID: P345324

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

Reference Method: SM 4500 F-C-97
Batch ID: P345327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P345343

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345211

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991083	Chloride	99.1		P	90 - 110
1991564	Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345214

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991083	Sulfate	98.7		P	90 - 110
1991564	Sulfate	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991078	Ammonia-N	98.5	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991277	Kjeldahl Nitrogen	101	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345240

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991078	NO2NO3-N	98.0	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P345014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991052	Total-P	101	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P344975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991079	O-Phosphate-P	94.4	95.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P345327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991083	Fluoride	97.6	97.0	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P345343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991051	Organic Carbon	100	98.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P344973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991083	Turbidity	1.15	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345211

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991083	Chloride	1.04	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345214

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991083	Sulfate	1.20	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991078	Ammonia-N	3.33	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991277	Kjeldahl Nitrogen	1.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345240

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991078	NO2NO3-N	1.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P345014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991052	Total-P	2.36	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P344975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991079	O-Phosphate-P	1.17	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P344967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991011	Color (true)	1.66	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P344968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991084	Color (true)	2.24	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P345324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991083	Total Alkalinity	0.348	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P345666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991003	TDS	1.91	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P345667

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991083	TDS	5.37	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P345327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991083	Fluoride	0.476	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P345343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991051	Organic Carbon	0.992	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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A83732

Included Lab Sample IDs: 1991083, 1991084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.5	101	P/P	90 - 110
Sulfate	99.0	100	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A83776

Included Lab Sample IDs: 1991083, 1991084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115
Color (true)	102	101	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A83777

Included Lab Sample IDs: 1991083, 1991084

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A83778

Included Lab Sample IDs: 1991087, 1991088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.6	97.3	P/P	90 - 110
O-Phosphate-P	98.0	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A83865

Included Lab Sample IDs: 1991085, 1991086

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A83866

Included Lab Sample IDs: 1991085, 1991086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	104	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A83894

Included Lab Sample IDs: 1991083, 1991084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.5	P/P	90 - 110
Total Alkalinity	98.5	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A83894

Included Lab Sample IDs: 1991083, 1991084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.1	P/P	90 - 110
Fluoride	98.6	100	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A83898

Included Lab Sample IDs: 1991085, 1991086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83912

Included Lab Sample IDs: 1991085, 1991086

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A83920

Included Lab Sample IDs: 1991085, 1991086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	101	P/P	90 - 110
Ammonia-N	102	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 SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				1.15	
EPA 300.0 Rev. 2.1	Chloride	97.6	99.1 98.9		1.04	
	Sulfate	97.3	98.7 99.2		1.20	
EPA 350.1 Rev. 2.0	Ammonia-N	105	98.5 104			3.33
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.5	101 103			1.97
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	98.0 99.5			1.52
EPA 365.1 Rev. 2.0	Total-P	101	101 104			2.36
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.5	94.4 95.8			1.17
SM 2120 B	Color (true)				1.66	
	Color (true)				2.24	
SM 2320 B-97	Total Alkalinity	101			0.348	
SM 2540 C-97	TDS				1.91	
	TDS				5.37	
SM 4500 F-C-97	Fluoride	97.1	97.6 97.0			0.476
SM 5310 B-00	Organic Carbon	99.3	100 98.1			0.992

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1991083, 1991084
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1991083, 1991084
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1991083, 1991084
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1991085, 1991086
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1991085, 1991086
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1991085, 1991086
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1991085, 1991086
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1991087, 1991088
SM 2120 B / E31780	True Color measured at 450 nm	1991083, 1991084
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1991083, 1991084
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1991083, 1991084
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	1991083, 1991084
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1991083, 1991084
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1991085, 1991086

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	05/09/2018			05/09/2018 15:35	DeAsia Armster	1991083, 1991084
EPA 300.0 Rev. 2.1	05/09/2018			05/11/2018 03:20	Lipi Saha	1991083
	05/09/2018			05/11/2018 04:08	Lipi Saha	1991084
EPA 350.1 Rev. 2.0	05/09/2018			05/14/2018 10:37	Ping Hua	1991085
	05/09/2018			05/14/2018 10:47	Ping Hua	1991086
EPA 351.2 Rev. 2.0	05/09/2018	05/11/2018 11:00	Adrian Shelby	05/14/2018 14:03	Joseph Suarez	1991085
	05/09/2018	05/11/2018 11:00	Adrian Shelby	05/14/2018 14:04	Joseph Suarez	1991086
EPA 353.2 Rev. 2.0	05/09/2018			05/14/2018 12:35	Lauren Bottorf	1991085
	05/09/2018			05/14/2018 12:36	Lauren Bottorf	1991086
EPA 365.1 Rev. 2.0	05/09/2018	05/10/2018 11:35	Sima Feizi	05/15/2018 10:22	Beverly Y. Sanders	1991085
	05/09/2018	05/10/2018 11:35	Sima Feizi	05/15/2018 10:24	Beverly Y. Sanders	1991086
EPA 365.1 Rev. 2.0 dissolved	05/09/2018			05/09/2018 15:21	Megan Treadwell	1991087
	05/09/2018			05/09/2018 15:45	Megan Treadwell	1991088
SM 2120 B	05/09/2018			05/09/2018 15:07	Tanya Welborn	1991083
	05/09/2018			05/09/2018 15:18	Tanya Welborn	1991084
SM 2320 B-97	05/09/2018			05/14/2018 23:37	Dale L. Simmons	1991083
	05/09/2018			05/15/2018 01:20	Dale L. Simmons	1991084
SM 2540 C-97	05/09/2018			05/11/2018 16:15	Yijie Li	1991083, 1991084
SM 2540 D-97	05/09/2018			05/11/2018 16:15	Yijie Li	1991083, 1991084
SM 4500 F-C-97	05/09/2018			05/14/2018 23:29	Dale L. Simmons	1991083
	05/09/2018			05/15/2018 01:20	Dale L. Simmons	1991084
SM 5310 B-00	05/09/2018			05/15/2018 00:08	Megan Treadwell	1991085
	05/09/2018			05/15/2018 00:22	Megan Treadwell	1991086