

Chemical Analysis Report

SO-DIST-2016-11-01-01

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

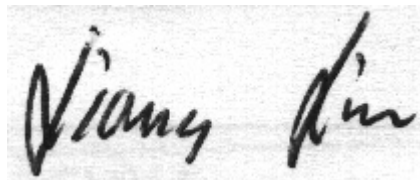
Event Description: **SMP: SCI Spring & Mullock**
Request ID: **RQ-2016-10-31-75**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901
Attn: Ben Paswater

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 21-NOV-2016 15:02

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 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: MULLOCK CREEK UPSTREAM OF US 41

Collection Date/Time: 10/31/2016 13:10

Field ID: SD103116-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1846206	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P314352	
	EPA 300.0 Rev. 2.1	Chloride	98		mg Cl/L	P315353	
		Sulfate	18		mg SO4/L	P315358	
	SM 2120 B	Color (true)	85		PCU	P314307	
	SM 2320 B-97	Total Alkalinity	238		mg CaCO3/L	P314441	
	SM 2540 C-97	TDS	429		mg/L	P314953	
	SM 2540 D-97	TSS	5	I	mg/L	P315042	
	SM 4500 F-C-97	Fluoride	0.10		mg F/L	P314445	
1846208	EPA 350.1 Rev. 2.0	Ammonia-N	0.085		mg N/L	P315020	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P315344	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.31		mg N/L	P314517	
	EPA 365.1 Rev. 2.0	Total-P	0.049		mg P/L	P314964	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P314481	
1846210	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.017		mg P/L	P314304	

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.

Sample Location: STROUD CREEK @ SR 78

Collection Date/Time: 10/31/2016 09:00

Field ID: SD103116-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1846207	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P314352	
	EPA 300.0 Rev. 2.1	Chloride	45		mg Cl/L	P315353	
		Sulfate	1.3		mg SO4/L	P315358	
	SM 2120 B	Color (true)	84		PCU	P314307	
	SM 2320 B-97	Total Alkalinity	150		mg CaCO3/L	P314441	
	SM 2540 C-97	TDS	266	A	mg/L	P314953	
	SM 2540 D-97	TSS	5	I	mg/L	P315042	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P314445	
1846209	EPA 350.1 Rev. 2.0	Ammonia-N	0.16		mg N/L	P315021	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P315344	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P314517	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P314964	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P314481	
1846211	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P314304	

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.

Quality Assurance Report

Method Blank Results

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P314352

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315353

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315358

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315020

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315021

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315344

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314517

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314964

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P314304

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: P314307

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P314441

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

Reference Method: SM 2540 C-97
Batch ID: P314953

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P315042

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P314445

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P314481

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: P315353

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315358

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: P315020

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315020

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315021

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: P315344

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314517

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P314304

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

Reference Method: SM 2320 B-97
Batch ID: P314441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P314445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P314481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846164	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315358

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846163	Sulfate	96.4		P	90 - 110
1846164	Sulfate	96.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846144	Ammonia-N	106	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315021

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846502	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1843872	Kjeldahl Nitrogen	108	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846193	NO2NO3-N	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314964

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846193	Total-P	97.1	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P314304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846198	O-Phosphate-P	97.7	98.0	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P314445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846039	Fluoride	99.6	99.0	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P314481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846042	Organic Carbon	101		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P314352

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846207	Turbidity	11.5	Sample	P	0 - 15

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846163	Chloride	0.138	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315358

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846163	Sulfate	0.106	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846144	Ammonia-N	0.651	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315021

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846502	Ammonia-N	0.927	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1843872	Kjeldahl Nitrogen	4.08	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846193	NO2NO3-N	0.267	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846193	Total-P	0.926	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P314304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846198	O-Phosphate-P	0.167	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P314307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846191	Color (true)	7.70	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P314441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846039	Total Alkalinity	0.202	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P314953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846207	TDS	4.51	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P314445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846039	Fluoride	0.473	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P314481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846042	Organic Carbon	1.25	Spike	P	0 - 20

Quality Assurance Report Precision

* 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: EPA 365.1 Rev. 2.0 dissolved

Run ID: A72553

Included Lab Sample IDs: 1846210, 1846211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.3	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A72554

Included Lab Sample IDs: 1846206, 1846207

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A72563

Included Lab Sample IDs: 1846206, 1846207

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

Reference Method: SM 2320 B-97

Run ID: A72585

Included Lab Sample IDs: 1846206, 1846207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.7	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A72585

Included Lab Sample IDs: 1846206, 1846207

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

Reference Method: SM 5310 B-00

Run ID: A72591

Included Lab Sample IDs: 1846208, 1846209

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.7	96.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A72599

Included Lab Sample IDs: 1846208, 1846209

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
 Run ID: A72764
 Included Lab Sample IDs: 1846208, 1846209

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Run ID: A72802
 Included Lab Sample IDs: 1846208, 1846209

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

Reference Method: EPA 300.0 Rev. 2.1
 Run ID: A72830
 Included Lab Sample IDs: 1846206, 1846207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.7	101	P/P	90 - 110
Sulfate	96.8	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A72894
 Included Lab Sample IDs: 1846208, 1846209

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	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	Precision	
				LCS	MS
EPA 180.1 Rev. 2.0	Turbidity			11.5	RSD
EPA 300.0 Rev. 2.1	Chloride	102	100	0.138	
	Sulfate	97.3	96.4 96.5	0.106	
EPA 350.1 Rev. 2.0	Ammonia-N	107	106 105		0.651
	Ammonia-N	105	103 102		0.927
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	108 103		4.08
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104	104 105		0.267
EPA 365.1 Rev. 2.0	Total-P	97.4	97.1 98.3		0.926
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	97.7 98.0		0.167
SM 2120 B	Color (true)			7.70	
SM 2320 B-97	Total Alkalinity	101		0.202	
SM 2540 C-97	TDS			4.51	
SM 4500 F-C-97	Fluoride	97.3	99.6 99.0		0.473
SM 5310 B-00	Organic Carbon	98.4	101		1.25

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1846206, 1846207
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1846206, 1846207
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1846206, 1846207
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1846208, 1846209
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1846208, 1846209
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1846208, 1846209
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1846208, 1846209
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1846210, 1846211
SM 2120 B / E31780	True Color measured at 450 nm	1846206, 1846207
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1846206, 1846207
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1846206, 1846207
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1846206, 1846207
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1846206, 1846207
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1846208, 1846209

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	11/01/2016			11/01/2016 15:55	Julie Michelle Frank	1846206, 1846207
EPA 300.0 Rev. 2.1	11/01/2016			11/17/2016	Ping Hua	1846206, 1846207
EPA 350.1 Rev. 2.0	11/01/2016			11/10/2016	Julie Michelle Frank	1846208, 1846209
EPA 351.2 Rev. 2.0	11/01/2016	11/17/2016	Adrian Shelby	11/18/2016	Joseph Suarez	1846208, 1846209
EPA 353.2 Rev. 2.0	11/01/2016			11/03/2016	Beverly Y. Sanders	1846208, 1846209
EPA 365.1 Rev. 2.0	11/01/2016	11/10/2016	Adrian Shelby	11/15/2016	Lipi Saha	1846208, 1846209
EPA 365.1 Rev. 2.0 dissolved	11/01/2016			11/01/2016 15:32	Julia Storbeck	1846210
	11/01/2016			11/01/2016 15:33	Julia Storbeck	1846211
SM 2120 B	11/01/2016			11/01/2016 16:24	Julie Michelle Frank	1846206
	11/01/2016			11/01/2016 16:25	Julie Michelle Frank	1846207
SM 2320 B-97	11/01/2016			11/02/2016	Dale L. Simmons	1846206
	11/01/2016			11/03/2016	Dale L. Simmons	1846207
SM 2540 C-97	11/01/2016			11/04/2016	Yijie Li	1846206, 1846207
SM 2540 D-97	11/01/2016			11/04/2016	Yijie Li	1846206, 1846207
SM 4500 F-C-97	11/01/2016			11/02/2016	Dale L. Simmons	1846206
	11/01/2016			11/03/2016	Dale L. Simmons	1846207
SM 5310 B-00	11/01/2016			11/02/2016	Julie Michelle Frank	1846208, 1846209