

Chemical Analysis Report

SW-DIST-2016-03-24-01

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

Event Description: **1788, 1605**
Request ID: **RQ-2016-03-21-52**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Stephen Clingerman

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Certified by: Colin Wright, Environmental Administrator

Date Certified: 12-APR-2016 14:53

A handwritten signature in black ink, appearing to read "Colin Wright", is written on a light-colored rectangular 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: G1SW0047

Collection Date/Time: 03/23/2016 10:40

Field ID: G1SW0047

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1783165	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P301013	
	EPA 300.0 Rev. 2.1	Chloride	56		mg Cl/L	P301316	
		Sulfate	180		mg SO4/L	P301317	
	SM 2120 B	Color (true)	82	A	PCU	P300996	
	SM 2320 B-97	Total Alkalinity	122		mg CaCO3/L	P301476	
	SM 2540 C-97	TDS	552	A	mg/L	P301563	
	SM 2540 D-97	TSS	2	I	mg/L	P301508	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P301481	
1783167	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P301368	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P301583	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.023		mg N/L	P301492	
	EPA 365.1 Rev. 2.0	Total-P	0.41		mg P/L	P301393	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P301376	
1783169	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P300990	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: G1SW0046

Collection Date/Time: 03/23/2016 10:40

Field ID: G1SW0046

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1783166	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P301013	
	EPA 300.0 Rev. 2.1	Chloride	45		mg Cl/L	P301316	
		Sulfate	19		mg SO4/L	P301317	
	SM 2120 B	Color (true)	49		PCU	P300996	
	SM 2320 B-97	Total Alkalinity	152		mg CaCO3/L	P301476	
	SM 2540 C-97	TDS	312		mg/L	P301563	
	SM 2540 D-97	TSS	2	U	mg/L	P301508	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P301481	
1783168	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P301368	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P301583	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010	I	mg N/L	P301492	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P301393	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P301376	
1783170	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.084		mg P/L	P300990	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P301013

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: P301316

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301317

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301368

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301583

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301492

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301393

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300990

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

Reference Method: SM 2120 B
Batch ID: P300996

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P301476

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P301563

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P301508

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P301481

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P301376

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: P301316

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: P301317

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301368

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301583

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301492

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301492

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: P301393

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: P300990

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

Reference Method: SM 2320 B-97
Batch ID: P301476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P301481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.6		P	94 - 108

Reference Method: SM 5310 B-00
Batch ID: P301376

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783141	Chloride	99.4		P	90 - 110
1783252	Chloride	96.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783141	Sulfate	96.8		P	90 - 110
1783252	Sulfate	94.3		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P301368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783167	Ammonia-N	99.9	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P301583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783145	Kjeldahl Nitrogen	105	111	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P301492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783208	NO2NO3-N	99.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P301393

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783134	Total-P	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P300990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783151	O-Phosphate-P	102		P	90 - 110

Reference Method: SM 4500 F-C-97
 Batch ID: P301481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783590	Fluoride	98.8	101	P/P	94 - 107

Reference Method: SM 5310 B-00
 Batch ID: P301376

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783111	Organic Carbon	91.9	92.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P301013

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783129	Turbidity	2.69	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783141	Chloride	0.00676	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783141	Sulfate	2.86	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783167	Ammonia-N	1.63	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783145	Kjeldahl Nitrogen	5.56	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301492

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783208	NO2NO3-N	0.398	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783134	Total-P	1.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783151	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P300996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783165	Color (true)	0.956	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P301476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783590	Total Alkalinity	0.297	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P301563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783165	TDS	0.905	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P301481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783590	Fluoride	1.46	Spike	P	0 - 3.7

Reference Method: SM 5310 B-00
Batch ID: P301376

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783111	Organic Carbon	0.470	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: EPA 365.1 Rev. 2.0 dissolved
Run ID: A68425
Included Lab Sample IDs: 1783169, 1783170

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.4	97.6	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A68426
Included Lab Sample IDs: 1783165, 1783166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	98.0	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A68427
Included Lab Sample IDs: 1783165, 1783166

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A68546

Included Lab Sample IDs: 1783165, 1783166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	99.1	98.1	P/P	90 - 110
Sulfate	99.9	98.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A68562

Included Lab Sample IDs: 1783167, 1783168

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

Reference Method: SM 5310 B-00

Run ID: A68565

Included Lab Sample IDs: 1783167, 1783168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.4	93.2	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A68607

Included Lab Sample IDs: 1783165, 1783166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	99.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A68607

Included Lab Sample IDs: 1783165, 1783166

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A68614

Included Lab Sample IDs: 1783167, 1783168

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A68654

Included Lab Sample IDs: 1783167, 1783168

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A68665
Included Lab Sample IDs: 1783167, 1783168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.7	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				2.69	
EPA 300.0 Rev. 2.1	Chloride	99.6	99.4 96.9		0.0067	
	Sulfate	97.6	96.8 94.3		2.86	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	99.9 103			1.63
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	105 111			5.56
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.8 100			0.398
EPA 365.1 Rev. 2.0	Total-P	103	103 105			1.24
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	102			0.0
SM 2120 B	Color (true)				0.956	
SM 2320 B-97	Total Alkalinity	103			0.297	
SM 2540 C-97	TDS				0.905	
SM 4500 F-C-97	Fluoride	96.6	98.8 101			1.46
SM 5310 B-00	Organic Carbon	94.4	91.9 92.4			0.470

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1783165, 1783166
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1783165, 1783166
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1783165, 1783166
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1783167, 1783168
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1783167, 1783168
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1783167, 1783168
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1783167, 1783168
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1783169, 1783170
SM 2120 B / E31780	True Color measured at 450 nm	1783165, 1783166
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1783165, 1783166
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1783165, 1783166
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1783165, 1783166
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1783165, 1783166
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1783167, 1783168

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	03/24/2016			03/24/2016 13:23	Sima Feizi	1783165, 1783166
EPA 300.0 Rev. 2.1	03/24/2016			03/30/2016	Ping Hua	1783165, 1783166
	03/24/2016			03/31/2016	Ping Hua	1783165
EPA 350.1 Rev. 2.0	03/24/2016			03/31/2016	Diana M. Turner	1783167, 1783168
EPA 351.2 Rev. 2.0	03/24/2016	04/05/2016	Sofia Elnemr	04/05/2016	Virginia P. Brown	1783167, 1783168
EPA 353.2 Rev. 2.0	03/24/2016			04/01/2016	Diana M. Turner	1783167, 1783168
EPA 365.1 Rev. 2.0	03/24/2016	04/01/2016	Christopher Armour	04/04/2016	Rochelle Y Jackson	1783167, 1783168
EPA 365.1 Rev. 2.0 dissolved	03/24/2016			03/24/2016 11:52	Ping Hua	1783169
	03/24/2016			03/24/2016 11:53	Ping Hua	1783170
SM 2120 B	03/24/2016			03/24/2016 12:52	Rochelle Y Jackson	1783165
	03/24/2016			03/24/2016 12:53	Rochelle Y Jackson	1783166
SM 2320 B-97	03/24/2016			03/30/2016	Dale L. Simmons	1783165, 1783166
SM 2540 C-97	03/24/2016			03/28/2016	Sima Feizi	1783165, 1783166
SM 2540 D-97	03/24/2016			03/28/2016	Sima Feizi	1783165, 1783166
SM 4500 F-C-97	03/24/2016			03/30/2016	Dale L. Simmons	1783165, 1783166
SM 5310 B-00	03/24/2016			03/31/2016	Sofia Elnemr	1783167, 1783168