

Chemical Analysis Report

SE-DIST-2017-08-02-01

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

Event Description: **SMP-G3 WPB Run**
Request ID: **RQ-2017-06-19-20**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

For additional information please contact
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-AUG-2017 15:07

A handwritten signature in black ink, appearing to read "Liang Lin", 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: Acme South @ Lake Worth Rd.

Collection Date/Time: 08/01/2017 10:30

Field ID: G3SE0016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1918122	EPA 180.1 Rev. 2.0	Turbidity	2.0	A	NTU	P329566	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P329708	
		Sulfate	29		mg SO4/L	P329712	
	SM 2120 B	Color (true)	55		PCU	P329575	
	SM 2320 B-97	Total Alkalinity	244		mg CaCO3/L	P329762	
	SM 2540 C-97	TDS	439		mg/L	P329919	
	SM 2540 D-97	TSS	3	I	mg/L	P330148	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P329766	
1918124	EPA 350.1 Rev. 2.0	Ammonia-N	0.38		mg N/L	P329674	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P329617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P329694	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P329634	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P329828	
1918126	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P329589	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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: Acme North @ South Shore Blvd.

Collection Date/Time: 08/01/2017 10:45

Field ID: 32012006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1918123	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P329566	
	EPA 300.0 Rev. 2.1	Chloride	77		mg Cl/L	P329708	
		Sulfate	36		mg SO4/L	P329712	
	SM 2120 B	Color (true)	90		PCU	P329575	
	SM 2320 B-97	Total Alkalinity	229		mg CaCO3/L	P329762	
	SM 2540 C-97	TDS	488	A	mg/L	P329919	
	SM 2540 D-97	TSS	3	IA	mg/L	P330148	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P329766	
1918125	EPA 350.1 Rev. 2.0	Ammonia-N	0.38		mg N/L	P329674	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P329617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P329694	
	EPA 365.1 Rev. 2.0	Total-P	0.098		mg P/L	P329634	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P329828	
1918127	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.051		mg P/L	P329589	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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: P329566

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P329708

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P329712

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P329674

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P329617

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P329694

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P329634

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P329589

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

Reference Method: SM 2120 B
Batch ID: P329575

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P329762

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

Reference Method: SM 2540 C-97
Batch ID: P329919

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P330148

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P329766

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P329828

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: P329708

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P329712

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P329674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P329617

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P329617

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P329694

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: P329634

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: P329589

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

Reference Method: SM 2320 B-97
Batch ID: P329762

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P329766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P329828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P329708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918108	Chloride	101		P	90 - 110
1918163	Chloride	106		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P329712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918108	Sulfate	103		P	90 - 110
1918163	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P329674

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918061	Ammonia-N	101	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P329617

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918061	Kjeldahl Nitrogen	106	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P329694

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918062	NO2NO3-N	96.8	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P329634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918191	Total-P	102	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P329589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918068	O-Phosphate-P	93.4	93.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P329766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918188	Fluoride	100	99.6	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P329828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1918124	Organic Carbon	94.2	94.7	P/P	85 - 115

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P329566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918122	Turbidity	0.496	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P329708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918163	Chloride	2.65	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P329674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918061	Ammonia-N	2.47	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P329617

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918061	Kjeldahl Nitrogen	2.37	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P329694

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918062	NO2NO3-N	0.743	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P329634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918191	Total-P	3.95	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P329589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918068	O-Phosphate-P	0.0806	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P329575

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918089	Color (true)	0.250	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P329762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918188	Total Alkalinity	0.170	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P329919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918123	TDS	2.25	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P329766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918188	Fluoride	0.470	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P329828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1918124	Organic Carbon	0.285	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: A78128
Included Lab Sample IDs: 1918122, 1918123

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.3	103	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A78130
Included Lab Sample IDs: 1918122, 1918123

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: A78141
Included Lab Sample IDs: 1918126, 1918127

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.1	98.5	P/P	90 - 110
O-Phosphate-P	98.5	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A78163

Included Lab Sample IDs: 1918122, 1918123

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.1	99.4	P/P	90 - 110
Chloride	99.4	96.7	P/P	90 - 110
Sulfate	100	98.7	P/P	90 - 110
Sulfate	102	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78181

Included Lab Sample IDs: 1918124, 1918125

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78182

Included Lab Sample IDs: 1918125

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78187

Included Lab Sample IDs: 1918124, 1918125

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: A78192

Included Lab Sample IDs: 1918124

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	98.2	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A78219

Included Lab Sample IDs: 1918122, 1918123

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A78219

Included Lab Sample IDs: 1918122, 1918123

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.6	99.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A78224
Included Lab Sample IDs: 1918124, 1918125

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.6	102	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A78252
Included Lab Sample IDs: 1918124, 1918125

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	99.8	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				0.496	
EPA 300.0 Rev. 2.1	Chloride	101	106 101		2.65	
	Sulfate	103	102 103			
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	101 98.4			2.47
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	106 103			2.37
EPA 353.2 Rev. 2.0	NO2NO3-N	104	96.8 95.8			0.743
EPA 365.1 Rev. 2.0	Total-P	101	102 97.8			3.95
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	93.4 93.3			0.0806
SM 2120 B	Color (true)				0.250	
SM 2320 B-97	Total Alkalinity	103			0.170	
SM 2540 C-97	TDS				2.25	
SM 4500 F-C-97	Fluoride	98.8	100 99.6			0.470
SM 5310 B-00	Organic Carbon	96.6	94.2 94.7			0.285

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1918122, 1918123
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1918122, 1918123
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1918122, 1918123
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1918124, 1918125
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1918124, 1918125
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1918124, 1918125
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1918124, 1918125
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1918126, 1918127

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
SM 2120 B / E31780	True Color measured at 450 nm	1918122, 1918123
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1918122, 1918123
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1918122, 1918123
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1918122, 1918123
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1918122, 1918123
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1918124, 1918125

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	08/02/2017			08/02/2017 16:29	DeAsia Armster	1918122, 1918123
EPA 300.0 Rev. 2.1	08/02/2017			08/03/2017	Julia Storbeck	1918122, 1918123
EPA 350.1 Rev. 2.0	08/02/2017			08/03/2017	Sofia Elnemr	1918124, 1918125
EPA 351.2 Rev. 2.0	08/02/2017	08/03/2017	Adrian Shelby	08/07/2017	Joseph Suarez	1918124, 1918125
EPA 353.2 Rev. 2.0	08/02/2017			08/04/2017	Beverly Y. Sanders	1918124, 1918125
EPA 365.1 Rev. 2.0	08/02/2017	08/03/2017	Sima Feizi	08/04/2017	Lipi Saha	1918124, 1918125
EPA 365.1 Rev. 2.0 dissolved	08/02/2017			08/02/2017 15:20	Ping Hua	1918127
	08/02/2017			08/02/2017 15:33	Ping Hua	1918126
SM 2120 B	08/02/2017			08/02/2017 15:28	Tanya Welborn	1918122
	08/02/2017			08/02/2017 15:29	Tanya Welborn	1918123
SM 2320 B-97	08/02/2017			08/05/2017	Dale L. Simmons	1918122, 1918123
SM 2540 C-97	08/02/2017			08/04/2017	Yijie Li	1918122, 1918123
SM 2540 D-97	08/02/2017			08/04/2017	Yijie Li	1918122, 1918123
SM 4500 F-C-97	08/02/2017			08/05/2017	Dale L. Simmons	1918122, 1918123
SM 5310 B-00	08/02/2017			08/07/2017	Ping Hua	1918124, 1918125