

Chemical Analysis Report

SE-DIST-2018-10-04-01

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

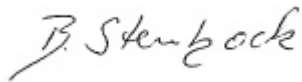
Event Description: **SMP- South Lakes**
Request ID: **RQ-2018-09-24-18**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 29-OCT-2018 15:00



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: LAKE MANGONIA NORTH

Collection Date/Time: 10/03/2018 12:30

Field ID: G3SE0030

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2031035	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P352904	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P353433	
		Sulfate	9.6		mg SO4/L	P353438	
	SM 2120 B	Color (true)	30		PCU	P352962	
	SM 2320 B-97	Total Alkalinity	77		mg CaCO3/L	P353024	RPD
	SM 2540 C-97	TDS	174		mg/L	P353372	
	SM 2540 D-97	TSS	2	I	mg/L	P353358	
	SM 4500 F-C-97	Fluoride	0.10		mg F/L	P353027	
2031036	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P353410	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P352941	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P352958	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P352850	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P352969	
2031037	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P352791	

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: CLEAR LAKE

Collection Date/Time: 10/03/2018 14:15

Field ID: G3SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2031038	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P352904	
	EPA 300.0 Rev. 2.1	Chloride	39		mg Cl/L	P353433	
		Sulfate	16		mg SO4/L	P353438	
	SM 2120 B	Color (true)	23		PCU	P352962	
	SM 2320 B-97	Total Alkalinity	81	AJ	mg CaCO3/L	P353024	RPD
	SM 2540 C-97	TDS	203		mg/L	P353372	
	SM 2540 D-97	TSS	2	UA	mg/L	P353358	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P353027	
2031039	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P353410	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P352941	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.017		mg N/L	P352958	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P352850	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P353393	
2031040	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P352791	

Ref. Method and Comment:

SM 2320 B-97: Refer to the narrative for an explanation of QC Codes.

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: P352904

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P353433

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P353438

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P353410

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P352941

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P352958

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P352850

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P352791

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

Reference Method: SM 2120 B
Batch ID: P352962

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P353024

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

Reference Method: SM 2540 C-97
Batch ID: P353372

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P353358

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P353027

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P352969

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-00
Batch ID: P353393

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: P353433

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P353438

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P353410

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.3		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P352941

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: P352958

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P352850

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P352791

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

Reference Method: SM 2120 B
Batch ID: P352962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P353024

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P353027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P352969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.7		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P353393

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P353433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2030819	Chloride	94.0		P	90 - 110
2031059	Chloride	95.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P353438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2030819	Sulfate	95.5		P	90 - 110
2031059	Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P353410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2030833	Ammonia-N	97.6	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P352941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2031054	Kjeldahl Nitrogen	104	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P352958

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2031018	NO2NO3-N	98.1	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P352850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2031039	Total-P	101	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P352791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2031040	O-Phosphate-P	97.2	97.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P353027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2031038	Fluoride	97.4	98.0	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P352969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2030791	Organic Carbon	96.4	97.3	P/P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P353393

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2031039	Organic Carbon	98.4	98.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P352904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031047	Turbidity	1.74	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P353433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2030819	Chloride	0.206	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P353438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2030819	Sulfate	0.244	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P353410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2030833	Ammonia-N	1.47	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P352941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031054	Kjeldahl Nitrogen	2.56	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P352958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031018	NO2NO3-N	0.428	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P352850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031039	Total-P	3.92	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P352791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031040	O-Phosphate-P	0.0964	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P352962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031017	Color (true)	1.32	Sample	P	0 - 15

Reference Method: SM 2320 B-97
 Batch ID: P353024

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031038	Total Alkalinity	2.00	Sample	F	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P353372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031050	TDS	2.11	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P353027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031038	Fluoride	0.473	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P352969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2030791	Organic Carbon	0.929	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P353393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2031039	Organic Carbon	0.201	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: A86919

Included Lab Sample IDs: 2031037, 2031040

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.8	100	P/P	90 - 110
O-Phosphate-P	99.9	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A86964

Included Lab Sample IDs: 2031035, 2031038

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	102	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A86973

Included Lab Sample IDs: 2031036, 2031039

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A86985

Included Lab Sample IDs: 2031036, 2031039

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A86986

Included Lab Sample IDs: 2031035, 2031038

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	101	P/P	90 - 115

Reference Method: SM 5310 B-00

Run ID: A86987

Included Lab Sample IDs: 2031036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.5	96.6	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A87013

Included Lab Sample IDs: 2031035, 2031038

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	105	P/P	90 - 110
Total Alkalinity	105	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A87013

Included Lab Sample IDs: 2031035, 2031038

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A87013

Included Lab Sample IDs: 2031035, 2031038

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A87033

Included Lab Sample IDs: 2031036, 2031039

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.4	P/P	90 - 110
Kjeldahl Nitrogen	99.8	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A87105

Included Lab Sample IDs: 2031035, 2031038

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.7	100	P/P	90 - 110
Sulfate	95.1	99.2	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A87167

Included Lab Sample IDs: 2031039

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	94.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A87185

Included Lab Sample IDs: 2031036, 2031039

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.5	99.0	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					1.74	
EPA 300.0 Rev. 2.1	Chloride	99.0	94.0	95.4		0.206	
	Sulfate	98.5	95.5	96.2		0.244	
EPA 350.1 Rev. 2.0	Ammonia-N	99.3	97.6	99.2			1.47
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	104	108			2.56
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	98.1	97.6			0.428
EPA 365.1 Rev. 2.0	Total-P	107	101	105			3.92
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8	97.2	97.3			0.0964
SM 2120 B	Color (true)	100				1.32	RSD
SM 2320 B-97	Total Alkalinity	104				2.00	
SM 2540 C-97	TDS					2.11	
SM 4500 F-C-97	Fluoride	98.5	97.4	98.0			0.473
SM 5310 B-00	Organic Carbon	93.7	96.4	97.3			0.929
	Organic Carbon	99.1	98.4	98.0			0.201

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2031035, 2031038
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2031035, 2031038
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2031035, 2031038
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2031036, 2031039
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2031036, 2031039
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2031036, 2031039
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2031036, 2031039
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2031037, 2031040
SM 2120 B / E31780	True Color measured at 450 nm	2031035, 2031038
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2031035, 2031038
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2031035, 2031038
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2031035, 2031038
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2031035, 2031038
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2031036, 2031039

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	10/04/2018			10/04/2018 16:07	Megan Treadwell	2031035, 2031038
EPA 300.0 Rev. 2.1	10/04/2018			10/19/2018 15:36	Lipi Saha	2031035
	10/04/2018			10/19/2018 15:48	Lipi Saha	2031038
EPA 350.1 Rev. 2.0	10/04/2018			10/18/2018 14:40	Ping Hua	2031036
	10/04/2018			10/18/2018 14:41	Ping Hua	2031039
EPA 351.2 Rev. 2.0	10/04/2018	10/08/2018 11:45	Adrian Shelby	10/15/2018 14:29	Joseph Suarez	2031036
	10/04/2018	10/08/2018 11:45	Adrian Shelby	10/15/2018 14:34	Joseph Suarez	2031039
EPA 353.2 Rev. 2.0	10/04/2018			10/08/2018 13:14	Lauren Bottorf	2031036
	10/04/2018			10/08/2018 13:15	Lauren Bottorf	2031039
EPA 365.1 Rev. 2.0	10/04/2018	10/05/2018 13:35	Sima Feizi	10/08/2018 11:18	Beverly Y. Sanders	2031036
	10/04/2018	10/05/2018 13:35	Sima Feizi	10/08/2018 11:19	Beverly Y. Sanders	2031039
EPA 365.1 Rev. 2.0 dissolved	10/04/2018			10/04/2018 15:16	Julia Storbeck	2031040
	10/04/2018			10/04/2018 17:04	Julia Storbeck	2031037
SM 2120 B	10/04/2018			10/04/2018 15:38	DeAsia Armster	2031035
	10/04/2018			10/04/2018 15:39	DeAsia Armster	2031038
SM 2320 B-97	10/04/2018			10/09/2018 10:40	Dale L. Simmons	2031038
	10/04/2018			10/09/2018 14:26	Dale L. Simmons	2031035
SM 2540 C-97	10/04/2018			10/08/2018 15:30	DeAsia Armster	2031035, 2031038
SM 2540 D-97	10/04/2018			10/08/2018 15:30	DeAsia Armster	2031035, 2031038
SM 4500 F-C-97	10/04/2018			10/09/2018 10:31	Dale L. Simmons	2031038
	10/04/2018			10/09/2018 14:26	Dale L. Simmons	2031035
SM 5310 B-00	10/04/2018			10/06/2018 09:31	Megan Treadwell	2031036
	10/04/2018			10/18/2018 04:35	Megan Treadwell	2031039