Chemical Analysis Report

SW-DIST-2019-05-22-01

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

Event Description: **LVIs**
Request ID: **RQ-2019-05-06-16**
Customer: **SW-DIST**
Project ID: **SMP**

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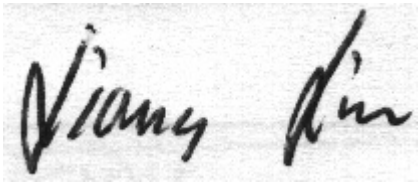
Date Certified: 06-JUN-2019 14:41



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 by the Florida Department of Health Environmental Laboratory Certification Program 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: BRANWOOD DR POND @ CENTER **Collection Date/Time: 05/20/2019 13:35**

Field ID: G2SW0074 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2088010	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P364431	
	EPA 300.0 Rev. 2.1	Chloride	44		mg Cl/L	P364629	
		Sulfate	28		mg SO4/L	P364632	
	SM 2120 B	Color (true)	21	A	PCU	P364357	
	SM 2320 B-97	Total Alkalinity	33	A	mg CaCO3/L	P364860	
	SM 2540 C-97	TDS	170	A	mg/L	P364925	
	SM 2540 D-97	TSS	4	IA	mg/L	P364885	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P364871	
2088012	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P364805	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P364753	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364518	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P364716	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P364512	
2088014	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P364379	

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: LAKE HOOKER @ CENTER **Collection Date/Time: 05/20/2019 10:50**

Field ID: G2SW0069 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2088011	EPA 180.1 Rev. 2.0	Turbidity	35	Q	NTU	P364431	
	EPA 300.0 Rev. 2.1	Chloride	31		mg Cl/L	P364629	
		Sulfate	16		mg SO4/L	P364632	
	SM 2120 B	Color (true)	81	Q	PCU	P364407	
	SM 2320 B-97	Total Alkalinity	17		mg CaCO3/L	P364860	
	SM 2540 C-97	TDS	120		mg/L	P364925	
	SM 2540 D-97	TSS	50		mg/L	P364885	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P364871	
2088013	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P364805	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	5.0		mg N/L	P364753	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364518	
	EPA 365.1 Rev. 2.0	Total-P	0.49		mg P/L	P364716	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P364512	
2088015	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.088	Q	mg P/L	P364379	

Ref. Method and Comment:
EPA 180.1 Rev. 2.0: The sample expired upon receipt.
SM 2120 B: The sample expired upon receipt.
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364431

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364629

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364632

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364805

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364753

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364518

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364716

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364379

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

Reference Method: SM 2120 B
Batch ID: P364357

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2120 B
Batch ID: P364407

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P364860

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

Reference Method: SM 2540 C-97
Batch ID: P364925

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P364885

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P364871

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P364512

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: P364629

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364632

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364805

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364753

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: P364518

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.3		P	90 - 110

Reference Method: SM 2120 B
Batch ID: P364357

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P364407

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P364860

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P364871

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P364512

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087942	Chloride	101		P	90 - 110
2087979	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364632

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087942	Sulfate	98.7		P	90 - 110
2087979	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087987	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087987	Kjeldahl Nitrogen	109	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087980	NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364716

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087981	Total-P	97.3	96.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087991	O-Phosphate-P	94.3	94.6	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P364871

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2088010	Fluoride	100	98.8	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P364512

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087912	Organic Carbon	94.5	94.7	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087966	Turbidity	1.74	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087942	Chloride	0.0277	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364632

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087942	Sulfate	0.0332	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087987	Ammonia-N	1.02	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087987	Kjeldahl Nitrogen	2.08	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087980	NO2NO3-N	0.551	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087981	Total-P	0.921	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087991	O-Phosphate-P	0.288	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B
Batch ID: P364357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088010	Color (true)	3.47	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P364407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087906	Color (true)	0.480	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P364860

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088010	Total Alkalinity	0.367	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P364925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088010	TDS	1.76	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P364871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088010	Fluoride	0.986	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P364512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087912	Organic Carbon	0.181	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: A91588
Included Lab Sample IDs: 2088010

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	98.3	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A91599
Included Lab Sample IDs: 2088014, 2088015

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

Reference Method: SM 2120 B
Run ID: A91604
Included Lab Sample IDs: 2088011

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	102	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A91617
Included Lab Sample IDs: 2088010, 2088011

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	100	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A91642
Included Lab Sample IDs: 2088010, 2088011

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A91657
Included Lab Sample IDs: 2088012, 2088013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	98.0	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A91661
Included Lab Sample IDs: 2088012, 2088013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	96.2	P/P	90 - 110
Organic Carbon	96.2	96.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A91780
Included Lab Sample IDs: 2088012, 2088013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A91780
Included Lab Sample IDs: 2088012, 2088013

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A91785
Included Lab Sample IDs: 2088013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.4	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A91790
Included Lab Sample IDs: 2088012

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

Reference Method: SM 2320 B-97
Run ID: A91798
Included Lab Sample IDs: 2088010, 2088011

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	105	P/P	90 - 110
Total Alkalinity	105	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A91799
Included Lab Sample IDs: 2088010, 2088011

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A91810
Included Lab Sample IDs: 2088012, 2088013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	104	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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					1.74	
EPA 300.0 Rev. 2.1	Chloride	100	101	100		0.0277	
	Sulfate	99.1	98.7	99.5		0.0332	
EPA 350.1 Rev. 2.0	Ammonia-N	102	102	103			1.02
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	109	106			2.08
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	100	99.5			0.551
EPA 365.1 Rev. 2.0	Total-P	97.0	97.3	96.4			0.921
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3	94.3	94.6			0.288
SM 2120 B	Color (true)	99.2				3.47	
	Color (true)	102				0.480	
SM 2320 B-97	Total Alkalinity	105				0.367	
SM 2540 C-97	TDS					1.76	
SM 4500 F-C-97	Fluoride	98.9	100	98.8			0.986
SM 5310 B-00	Organic Carbon	96.4	94.5	94.7			0.181

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2088010, 2088011
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2088010, 2088011
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2088010, 2088011
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2088012, 2088013
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2088012, 2088013
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2088012, 2088013
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2088012, 2088013
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2088014, 2088015
SM 2120 B / E31780	True Color measured at 450 nm	2088010, 2088011
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2088010, 2088011
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2088010, 2088011
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2088010, 2088011
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2088010, 2088011
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2088012, 2088013

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	05/22/2019			05/22/2019 11:42	Sima Feizi	2088010
	05/22/2019			05/22/2019 11:45	Sima Feizi	2088011
EPA 300.0 Rev. 2.1	05/22/2019			05/25/2019 04:15	Lipi Saha	2088010
	05/22/2019			05/25/2019 04:27	Lipi Saha	2088011
EPA 350.1 Rev. 2.0	05/22/2019			05/24/2019 13:22	Ping Hua	2088012
	05/22/2019			05/24/2019 13:23	Ping Hua	2088013
EPA 351.2 Rev. 2.0	05/22/2019	05/30/2019 18:00	Adrian Shelby	06/03/2019 10:44	Joseph Suarez	2088012
	05/22/2019	05/30/2019 18:00	Adrian Shelby	06/03/2019 10:46	Joseph Suarez	2088013
EPA 353.2 Rev. 2.0	05/22/2019			05/24/2019 10:59	Beverly Y. Sanders	2088012
	05/22/2019			05/24/2019 11:00	Beverly Y. Sanders	2088013
EPA 365.1 Rev. 2.0	05/22/2019	05/30/2019 10:32	Joseph Suarez	05/31/2019 11:47	Rosalyn Ballman	2088013
	05/22/2019	05/30/2019 10:32	Joseph Suarez	05/31/2019 15:46	Rosalyn Ballman	2088012
EPA 365.1 Rev. 2.0 dissolved	05/22/2019			05/22/2019 11:47	Jhamieka S. Greenwood	2088015
	05/22/2019			05/22/2019 11:48	Jhamieka S. Greenwood	2088014
SM 2120 B	05/22/2019			05/22/2019 11:15	Madeline Funaro	2088010
	05/22/2019			05/22/2019 16:05	Madeline Funaro	2088011
SM 2320 B-97	05/22/2019			06/02/2019 02:00	Dale L. Simmons	2088010
	05/22/2019			06/02/2019 03:59	Dale L. Simmons	2088011
SM 2540 C-97	05/22/2019			05/23/2019 16:02	Yijie Li	2088010, 2088011
SM 2540 D-97	05/22/2019			05/23/2019 16:02	Yijie Li	2088010, 2088011
SM 4500 F-C-97	05/22/2019			05/31/2019 08:57	Dale L. Simmons	2088010
	05/22/2019			05/31/2019 10:55	Dale L. Simmons	2088011
SM 5310 B-00	05/22/2019			05/23/2019 08:32	Julia Storbeck	2088012
	05/22/2019			05/23/2019 09:12	Julia Storbeck	2088013