

Chemical Analysis Report

CEN-DIST-2020-07-28-01

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

Event Description: **Theresa + Blank**
Request ID: **RQ-2020-07-27-53**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Kalina Warren

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 19-AUG-2020 10:13



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: Lake Theresa @ Center

Collection Date/Time: 07/27/2020 14:59

Field ID: G4CE0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186370	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P385303	
	EPA 300.0 Rev. 2.1	Chloride	8.9		mg Cl/L	P385625	
		Sulfate	1.5		mg SO4/L	P385629	
	SM 2120 B-2011	Color (true)	28	A	PCU	P385277	
	SM 2320 B-2011	Total Alkalinity	71		mg CaCO3/L	P385522	
	SM 2540 C-2011	TDS	106	A	mg/L	P385615	
	SM 2540 D-2011	TSS	5	IA	mg/L	P385653	
	SM 4500 F-C-2011	Fluoride	0.085	I	mg F/L	P385381	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P385479	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P385373	MS
2186371	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P385368	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P385505	
	SM 5310 B-2011	Organic Carbon	7.4		mg C/L	P385449	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P385282	
	dissolved						

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Field Blank

Collection Date/Time: 07/27/2020 15:13

Field ID: FB_07272020

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186373	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P385303	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P385625	
		Sulfate	0.20	U	mg SO4/L	P385629	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P385277	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P385522	
	SM 2540 C-2011	TDS	15	U	mg/L	P385613	
	SM 2540 D-2011	TSS	2	U	mg/L	P385650	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P385381	
2186374	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P385479	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P385373	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P385368	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P385942	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P385449	
2186375	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P385282	

Ref. Method and Comment:

SM 2540 D-2011: 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: P385303

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385625

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385629

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385479

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385373

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385368

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385505

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385942

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385282

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P385277

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P385522

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

Reference Method: SM 2540 C-2011
Batch ID: P385613

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P385615

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P385650

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P385653

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P385381

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P385449

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: P385625

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385629

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385479

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385373

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385368

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385505

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385942

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385282

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

Reference Method: SM 2120 B-2011
Batch ID: P385277

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-2011
Batch ID: P385522

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.5		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P385381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P385449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185601	Chloride	102		P	90 - 110
2186402	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185601	Sulfate	102		P	90 - 110
2186402	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186371	Ammonia-N	97.0	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186338	Kjeldahl Nitrogen	113	108	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186345	NO2NO3-N	98.8	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385505

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186404	Total-P	105	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189464	Total-P	103	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385282

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186372	O-Phosphate-P	101	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P385381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186403	Fluoride	105	105	P/P	94 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P385449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186371	Organic Carbon	96.2	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385303

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186285	Turbidity	1.09	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185601	Chloride	0.723	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185601	Sulfate	1.16	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186371	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186338	Kjeldahl Nitrogen	2.84	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186345	NO2NO3-N	0.462	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385505

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186404	Total-P	3.35	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189464	Total-P	1.51	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P385282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186372	O-Phosphate-P	0.0992	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
 Batch ID: P385277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186370	Color (true)	11.4	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P385522

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186403	Total Alkalinity	0.0677	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
 Batch ID: P385613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185460	TDS	2.96	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
 Batch ID: P385615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186370	TDS	0.948	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P385381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186403	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
 Batch ID: P385449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186371	Organic Carbon	0.636	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A100132

Included Lab Sample IDs: 2186370, 2186373

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100133

Included Lab Sample IDs: 2186372, 2186375

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.6	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A100145

Included Lab Sample IDs: 2186370, 2186373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100175

Included Lab Sample IDs: 2186371, 2186374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A100179

Included Lab Sample IDs: 2186370, 2186373

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

Reference Method: SM 5310 B-2011

Run ID: A100203

Included Lab Sample IDs: 2186371, 2186374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	97.4	P/P	90 - 110
Organic Carbon	97.4	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100209

Included Lab Sample IDs: 2186371, 2186374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	95.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100212

Included Lab Sample IDs: 2186371, 2186374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100212

Included Lab Sample IDs: 2186371, 2186374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	98.9	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A100227

Included Lab Sample IDs: 2186370, 2186373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	107	98.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100267

Included Lab Sample IDs: 2186370, 2186373

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100284

Included Lab Sample IDs: 2186371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100458

Included Lab Sample IDs: 2186374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	97.5	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	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					1.09	
EPA 300.0 Rev. 2.1	Chloride	104	102	102		0.723	
	Sulfate	104	102	104		1.16	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	97.0	97.0			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.6	113	108			2.84
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	98.8	98.0			0.462
EPA 365.1 Rev. 2.0	Total-P	103	105	109			3.35
	Total-P	102	103	101			1.51
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	101	101			0.0992
SM 2120 B-2011	Color (true)	102				11.4	
SM 2320 B-2011	Total Alkalinity	99.5				0.0677	
SM 2540 C-2011	TDS					2.96	
	TDS					0.948	
SM 4500 F-C-2011	Fluoride	98.3	105	105			0.0
SM 5310 B-2011	Organic Carbon	95.8	96.2	97.0			0.636

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2186370, 2186373
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2186370, 2186373
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2186370, 2186373
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2186371, 2186374
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2186371, 2186374
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2186371, 2186374
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2186371, 2186374
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2186372, 2186375
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2186370, 2186373
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2186370, 2186373
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2186370, 2186373
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2186370, 2186373
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2186370, 2186373
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2186371, 2186374

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	07/28/2020			07/28/2020 16:10	Blanca Fach	2186370, 2186373
EPA 300.0 Rev. 2.1	07/28/2020			08/01/2020 05:41	Julia Storbeck	2186370
	07/28/2020			08/01/2020 05:53	Julia Storbeck	2186373
EPA 350.1 Rev. 2.0	07/28/2020			08/01/2020 18:09	Ping Hua	2186371
	07/28/2020			08/01/2020 18:31	Ping Hua	2186374
EPA 351.2 Rev. 2.0	07/28/2020	07/30/2020 12:15	Jhamieka S. Greenwood	07/31/2020 14:32	Jhamieka S. Greenwood	2186371
	07/28/2020	07/30/2020 12:15	Jhamieka S. Greenwood	07/31/2020 14:34	Jhamieka S. Greenwood	2186374
EPA 353.2 Rev. 2.0	07/28/2020			07/30/2020 08:22	Beverly Y. Sanders	2186371
	07/28/2020			07/30/2020 08:23	Beverly Y. Sanders	2186374
EPA 365.1 Rev. 2.0	07/28/2020	08/03/2020 10:00	Lipi Saha	08/04/2020 09:50	Benjamin T. Nordmann	2186371
	07/28/2020	08/12/2020 11:41	Yen Ta	08/14/2020 08:28	Lipi Saha	2186374
EPA 365.1 Rev. 2.0 dissolved	07/28/2020			07/28/2020 16:13	Samantha Davila	2186372
	07/28/2020			07/28/2020 16:19	Samantha Davila	2186375
SM 2120 B-2011	07/28/2020			07/28/2020 16:06	Benjamin T. Nordmann	2186370
	07/28/2020			07/28/2020 16:11	Benjamin T. Nordmann	2186373
SM 2320 B-2011	07/28/2020			08/01/2020 04:48	Dale L. Simmons	2186370
	07/28/2020			08/01/2020 04:54	Dale L. Simmons	2186373
SM 2540 C-2011	07/28/2020			07/29/2020 15:16	Yijie Li	2186370, 2186373
SM 2540 D-2011	07/28/2020			07/29/2020 15:16	Yijie Li	2186370, 2186373
SM 4500 F-C-2011	07/28/2020			07/29/2020 20:03	Dale L. Simmons	2186370
	07/28/2020			07/29/2020 20:12	Dale L. Simmons	2186373
SM 5310 B-2011	07/28/2020			07/30/2020 20:36	David Boose	2186371
	07/28/2020			07/30/2020 23:16	David Boose	2186374