

Chemical Analysis Report

CEN-DIST-2021-07-20-02

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

Event Description: **Minnie/Alma/Coon/Center**
Request ID: **RQ-2021-06-14-37**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:

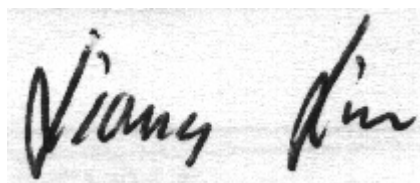
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 16-AUG-2021 10:43

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 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: Coon Lake @ Center

Collection Date/Time: 07/19/2021 11:28

Field ID: G4CE0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2263280	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P401247	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P401680	
		Sulfate	9.2		mg SO4/L	P401683	
	SM 2120 B-2011	Color (true)	270		PCU	P401252	
	SM 2320 B-2011	Total Alkalinity	3.4		mg CaCO3/L	P401463	
	SM 2540 C-2011	TDS	123		mg/L	P401796	
	SM 2540 D-2011	TSS	3	I	mg/L	P401801	
	SM 4500 F-C-2011	Fluoride	0.049	I	mg F/L	P401467	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P401595	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P402246	
2263282	EPA 353.2 Rev. 2.0	NO2NO3-N	0.043		mg N/L	P401284	
	EPA 365.1 Rev. 2.0	Total-P	0.039		mg P/L	P401506	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P402092	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	I	mg P/L	P401238	
	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: Lake Center @ Center

Collection Date/Time: 07/19/2021 11:11

Field ID: G4CE0163

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2263281	EPA 180.1 Rev. 2.0	Turbidity	9.8		NTU	P401247	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P401680	
		Sulfate	11		mg SO4/L	P401683	
	SM 2120 B-2011	Color (true)	390		PCU	P401252	
	SM 2320 B-2011	Total Alkalinity	1.7	I	mg CaCO3/L	P401463	
	SM 2540 C-2011	TDS	121		mg/L	P401796	
	SM 2540 D-2011	TSS	4	I	mg/L	P401801	
	SM 4500 F-C-2011	Fluoride	0.051	I	mg F/L	P401467	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P401594	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P402246	
2263283	EPA 353.2 Rev. 2.0	NO2NO3-N	0.072		mg N/L	P401284	
	EPA 365.1 Rev. 2.0	Total-P	0.057		mg P/L	P401506	
	SM 5310 B-2011	Organic Carbon	31		mg C/L	P402092	
2263285	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P401238	

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: P401247

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401680

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401683

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401594

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401595

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402246

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401284

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401506

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P401238

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: P401252

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P401463

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

Reference Method: SM 2540 C-2011
Batch ID: P401796

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P401801

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P401467

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P402092

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: P401680

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401683

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401594

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401595

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402246

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: P401284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	108		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P401238

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

Reference Method: SM 2120 B-2011
Batch ID: P401252

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P401463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P401467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P402092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263038	Chloride	99.3		P	90 - 110
2263273	Chloride	99.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263038	Sulfate	99.0		P	90 - 110
2263273	Sulfate	98.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2262354	Ammonia-N	99.0	96.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2262558	Ammonia-N	95.2	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263203	Kjeldahl Nitrogen	109	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263151	NO2NO3-N	104	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263302	Total-P	109	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P401238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263117	O-Phosphate-P	100	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P401467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263128	Fluoride	98.5	101	P/P	92 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P402092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263151	Organic Carbon	98.0	98.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P401247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263202	Turbidity	2.98	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263038	Chloride	0.767	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263038	Sulfate	3.13	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2262354	Ammonia-N	2.20	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2262558	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263203	Kjeldahl Nitrogen	3.74	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263151	NO2NO3-N	1.30	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263302	Total-P	2.41	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P401238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263117	O-Phosphate-P	0.538	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P401252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263202	Color (true)	1.66	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P401463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263128	Total Alkalinity	0.687	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P401796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263577	TDS	5.75	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P401467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263128	Fluoride	1.90	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P402092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263151	Organic Carbon	0.220	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A106713

Included Lab Sample IDs: 2263284, 2263285

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A106714

Included Lab Sample IDs: 2263280, 2263281

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

Reference Method: SM 2120 B-2011

Run ID: A106715

Included Lab Sample IDs: 2263280, 2263281

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.6	100	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A106730

Included Lab Sample IDs: 2263282, 2263283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A106794

Included Lab Sample IDs: 2263280, 2263281

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110
Total Alkalinity	102	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A106794

Included Lab Sample IDs: 2263280, 2263281

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	103	P/P	90 - 110
Fluoride	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106817

Included Lab Sample IDs: 2263283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106825

Included Lab Sample IDs: 2263282

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106825

Included Lab Sample IDs: 2263282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A106850

Included Lab Sample IDs: 2263282, 2263283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	98.0	P/P	90 - 110
Ammonia-N	99.3	98.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A106905

Included Lab Sample IDs: 2263280, 2263281

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

Reference Method: SM 5310 B-2011

Run ID: A107085

Included Lab Sample IDs: 2263282, 2263283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.5	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107173

Included Lab Sample IDs: 2263282, 2263283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.1	P/P	90 - 110
Kjeldahl Nitrogen	99.8	101	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					2.98	
EPA 300.0 Rev. 2.1	Chloride	101	99.3	99.4		0.767	
	Sulfate	100	99.0	98.0		3.13	
EPA 350.1 Rev. 2.0	Ammonia-N	101	99.0	96.0			2.20
	Ammonia-N	98.4	95.2	95.2			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	109	102			3.74
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	105	104	102			1.30
EPA 365.1 Rev. 2.0	Total-P	108	109	107			2.41
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	100	101			0.538
SM 2120 B-2011	Color (true)	100				1.66	
SM 2320 B-2011	Total Alkalinity	103				0.687	
SM 2540 C-2011	TDS					5.75	
SM 4500 F-C-2011	Fluoride	98.9	98.5	101			1.90
SM 5310 B-2011	Organic Carbon	96.0	98.0	98.4			0.220

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2263280, 2263281
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2263280, 2263281
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2263280, 2263281
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2263282, 2263283
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2263282, 2263283
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2263282, 2263283
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2263282, 2263283
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2263284, 2263285
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2263280, 2263281
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2263280, 2263281
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2263280, 2263281
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2263280, 2263281
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2263280, 2263281
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2263282, 2263283

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	07/20/2021			07/20/2021 15:51	Sarah A Nixon	2263280, 2263281
EPA 300.0 Rev. 2.1	07/20/2021			07/28/2021 22:54	Lipi Saha	2263280
	07/20/2021			07/28/2021 23:06	Lipi Saha	2263281
EPA 350.1 Rev. 2.0	07/20/2021			07/27/2021 12:27	Roberta Tatti	2263283
	07/20/2021			07/27/2021 12:51	Roberta Tatti	2263282
EPA 351.2 Rev. 2.0	07/20/2021	08/10/2021 12:37	Benjamin T. Nordmann	08/11/2021 10:21	Virginia P. Brown	2263282
	07/20/2021	08/10/2021 12:37	Benjamin T. Nordmann	08/11/2021 10:26	Virginia P. Brown	2263283
EPA 353.2 Rev. 2.0	07/20/2021			07/21/2021 10:15	Beverly Y. Sanders	2263282
	07/20/2021			07/21/2021 10:17	Beverly Y. Sanders	2263283
EPA 365.1 Rev. 2.0	07/20/2021	07/23/2021 17:05	Madeline Gruver	07/26/2021 09:42	Shengyu Ding	2263283
	07/20/2021	07/23/2021 17:05	Madeline Gruver	07/26/2021 13:36	Shengyu Ding	2263282
EPA 365.1 Rev. 2.0 dissolved	07/20/2021			07/20/2021 15:23	Ping Hua	2263284
	07/20/2021			07/20/2021 15:24	Ping Hua	2263285
SM 2120 B-2011	07/20/2021			07/20/2021 17:00	Madeline Gruver	2263280
	07/20/2021			07/20/2021 17:01	Madeline Gruver	2263281
SM 2320 B-2011	07/20/2021			07/22/2021 20:59	Dale L. Simmons	2263280
	07/20/2021			07/22/2021 21:46	Dale L. Simmons	2263281
SM 2540 C-2011	07/20/2021			07/23/2021 15:22	Yijie Li	2263280, 2263281
SM 2540 D-2011	07/20/2021			07/23/2021 15:22	Yijie Li	2263280, 2263281
SM 4500 F-C-2011	07/20/2021			07/22/2021 20:59	Dale L. Simmons	2263280
	07/20/2021			07/22/2021 21:46	Dale L. Simmons	2263281
SM 5310 B-2011	07/20/2021			08/05/2021 02:06	Madeline Gruver	2263282
	07/20/2021			08/05/2021 02:20	Madeline Gruver	2263283