

Chemical Analysis Report

CEN-DIST-2021-04-28-01

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

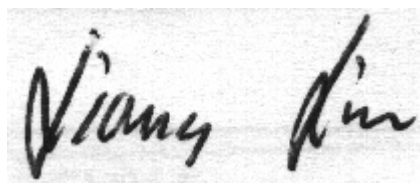
Event Description: **Coon Lake / Lake Center**
Request ID: **RQ-2021-04-12-04**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 18-MAY-2021 09:58

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: Lake Center @ Center

Collection Date/Time: 04/27/2021 10:55

Field ID: G4CE0163

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2243300	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P397352	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P398190	
		Sulfate	8.3		mg SO4/L	P398194	
	SM 2120 B-2011	Color (true)	400		PCU	P397355	
	SM 2320 B-2011	Total Alkalinity	2.2	I	mg CaCO3/L	P397927	
	SM 2540 C-2011	TDS	118		mg/L	P397785	
	SM 2540 D-2011	TSS	4	I	mg/L	P397593	
	SM 4500 F-C-2011	Fluoride	0.049	I	mg F/L	P397524	
2243302	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P397514	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P397549	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.079		mg N/L	P397545	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P397438	
	SM 5310 B-2011	Organic Carbon	33		mg C/L	P397803	
2243304	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P397346	

Sample Location: Coon lake @ Center

Collection Date/Time: 04/27/2021 11:20

Field ID: G4CE0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2243301	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P397352	
	EPA 300.0 Rev. 2.1	Chloride	28		mg Cl/L	P398190	
		Sulfate	7.0		mg SO4/L	P398194	
	SM 2120 B-2011	Color (true)	310		PCU	P397355	
	SM 2320 B-2011	Total Alkalinity	3.2		mg CaCO3/L	P397927	
	SM 2540 C-2011	TDS	122		mg/L	P397785	
	SM 2540 D-2011	TSS	3	I	mg/L	P397593	
	SM 4500 F-C-2011	Fluoride	0.047	I	mg F/L	P397524	
2243303	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P397988	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P397549	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.062		mg N/L	P397545	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P397438	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P397803	
2243305	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P397346	

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P397352

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398190

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398194

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397514

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397988

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P397549

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397545

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P397438

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397346

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: P397355

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P397927

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

Reference Method: SM 2540 C-2011
Batch ID: P397785

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P397593

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P397524

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P397803

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: P398190

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398194

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397514

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397988

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P397549

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397545

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P397438

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397346

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.0		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P397355

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: P397927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P397524

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P397803

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243251	Chloride	101		P	90 - 110
2243260	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243251	Sulfate	102		P	90 - 110
2243260	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397514

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2242205	Ammonia-N	94.2	98.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397988

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243268	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P397549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243450	Kjeldahl Nitrogen	105	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243303	NO2NO3-N	97.4	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P397438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243450	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397346

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243470	O-Phosphate-P	96.2	95.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P397524

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243503	Fluoride	97.4	98.5	P/P	94 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P397803

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2243469	Organic Carbon	95.5	96.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P397352

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243233	Turbidity	3.93	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243251	Chloride	0.401	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243251	Sulfate	0.456	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397514

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2242205	Ammonia-N	3.27	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P397988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243268	Ammonia-N	0.465	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P397549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243450	Kjeldahl Nitrogen	1.65	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243303	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P397438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243450	Total-P	1.11	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397346

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243470	O-Phosphate-P	0.424	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P397355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243233	Color (true)	3.92	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P397927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243103	Total Alkalinity	1.66	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P397785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243502	TDS	3.41	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P397593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243502	TSS	6.59	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P397524

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243503	Fluoride	0.929	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P397803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2243469	Organic Carbon	0.649	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: A105061

Included Lab Sample IDs: 2243304, 2243305

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A105062

Included Lab Sample IDs: 2243300, 2243301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.0	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A105063

Included Lab Sample IDs: 2243300, 2243301

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105117

Included Lab Sample IDs: 2243302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	95.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A105119

Included Lab Sample IDs: 2243300, 2243301

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A105129

Included Lab Sample IDs: 2243302, 2243303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105131

Included Lab Sample IDs: 2243302, 2243303

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A105166

Included Lab Sample IDs: 2243302, 2243303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	96.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A105235

Included Lab Sample IDs: 2243302, 2243303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	97.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A105297

Included Lab Sample IDs: 2243300, 2243301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105340

Included Lab Sample IDs: 2243303

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A105392

Included Lab Sample IDs: 2243300, 2243301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	101	102	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					3.93	
EPA 300.0 Rev. 2.1	Chloride	101	101	101		0.401	
	Sulfate	102	102	102		0.456	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	94.2	98.4			3.27
	Ammonia-N	97.8	101	102			0.465
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	105	109			1.65
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	97.4	97.4			0.0
EPA 365.1 Rev. 2.0	Total-P	104	104	105			1.11
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0	96.2	95.5			0.424
SM 2120 B-2011	Color (true)	100				3.92	
SM 2320 B-2011	Total Alkalinity	100				1.66	
SM 2540 C-2011	TDS					3.41	
SM 2540 D-2011	TSS					6.59	
SM 4500 F-C-2011	Fluoride	99.6	97.4	98.5			0.929
SM 5310 B-2011	Organic Carbon	95.2	95.5	96.4			0.649

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2243300, 2243301
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2243300, 2243301
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2243300, 2243301
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2243302, 2243303
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2243302, 2243303
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2243302, 2243303
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2243302, 2243303
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2243304, 2243305
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2243300, 2243301
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2243300, 2243301
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2243300, 2243301
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2243300, 2243301
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2243300, 2243301
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2243302, 2243303

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	04/28/2021			04/28/2021 16:51	Sarah A Nixon	2243300, 2243301
EPA 300.0 Rev. 2.1	04/28/2021			05/14/2021 06:55	Lipi Saha	2243300
	04/28/2021			05/14/2021 07:07	Lipi Saha	2243301
EPA 350.1 Rev. 2.0	04/28/2021			05/01/2021 12:44	Ping Hua	2243302
	04/28/2021			05/11/2021 13:01	Ping Hua	2243303
EPA 351.2 Rev. 2.0	04/28/2021	05/03/2021 13:05	Benjamin T. Nordmann	05/04/2021 13:57	Virginia P. Brown	2243302
	04/28/2021	05/03/2021 13:05	Benjamin T. Nordmann	05/04/2021 13:58	Virginia P. Brown	2243303
EPA 353.2 Rev. 2.0	04/28/2021			05/03/2021 11:09	Beverly Y. Sanders	2243303
	04/28/2021			05/03/2021 11:20	Beverly Y. Sanders	2243302
EPA 365.1 Rev. 2.0	04/28/2021	04/29/2021 15:25	Yen Ta	05/03/2021 12:53	Shengyu Ding	2243302
	04/28/2021	04/29/2021 15:25	Yen Ta	05/03/2021 12:54	Shengyu Ding	2243303
EPA 365.1 Rev. 2.0 dissolved	04/28/2021			04/28/2021 15:10	Patrick M. Roche	2243304, 2243305
SM 2120 B-2011	04/28/2021			04/28/2021 18:01	Madeline Gruver	2243300
	04/28/2021			04/28/2021 18:02	Madeline Gruver	2243301
SM 2320 B-2011	04/28/2021			05/11/2021 00:35	Dale L. Simmons	2243300
	04/28/2021			05/11/2021 00:42	Dale L. Simmons	2243301
SM 2540 C-2011	04/28/2021			04/30/2021 15:21	Yijie Li	2243300, 2243301
SM 2540 D-2011	04/28/2021			04/30/2021 15:17	Yijie Li	2243300, 2243301
SM 4500 F-C-2011	04/28/2021			05/02/2021 06:33	Dale L. Simmons	2243300
	04/28/2021			05/02/2021 06:42	Dale L. Simmons	2243301
SM 5310 B-2011	04/28/2021			05/06/2021 01:15	Madeline Gruver	2243302
	04/28/2021			05/06/2021 01:26	Madeline Gruver	2243303