

Chemical Analysis Report

CEN-DIST-2021-05-28-01

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

Event Description: **Lake Norris + Blank**
Request ID: **RQ-2021-05-24-64**
Customer: **CEN-DIST**
Project ID: **SMP**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 21-JUN-2021 14:00

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 Norris S of Center

Collection Date/Time: 05/27/2021 11:18

Field ID: G2CE0239

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2251056	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P399206	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P399476	
		Sulfate	12		mg SO4/L	P399479	
	SM 2120 B-2011	Color (true)	610		PCU	P399012	
	SM 2320 B-2011	Total Alkalinity	29		mg CaCO3/L	P399063	
	SM 2540 C-2011	TDS	201		mg/L	P399519	
	SM 2540 D-2011	TSS	2	I	mg/L	P399105	
	SM 4500 F-C-2011	Fluoride	0.092	I	mg F/L	P399064	
2251057	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P399372	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P399039	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P399031	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P399034	
	SM 5310 B-2011	Organic Carbon	45		mg C/L	P399096	
2251058	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.023		mg P/L	P398987	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Field Blank

Collection Date/Time: 05/27/2021 11:45

Field ID: FB_05272021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2251059	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P399206	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P399476	
		Sulfate	0.20	U	mg SO4/L	P399479	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P399012	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P399063	
	SM 2540 C-2011	TDS	15	U	mg/L	P399416	
	SM 2540 D-2011	TSS	2	U	mg/L	P399104	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P399064	
2251060	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P399372	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P399039	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P399031	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P399034	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P399096	
2251061	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P398987	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399206

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399476

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399372

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399039

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399031

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399034

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398987

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

Reference Method: SM 2120 B-2011
Batch ID: P399012

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P399063

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

Reference Method: SM 2540 C-2011
Batch ID: P399416

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P399519

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P399104

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P399105

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P399064

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P399096

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: P399476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399039

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399031

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399034

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398987

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

Reference Method: SM 2120 B-2011
Batch ID: P399012

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.0		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P399063

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.8		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P399064

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

Reference Method: SM 5310 B-2011
Batch ID: P399096

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250461	Chloride	92.8		P	90 - 110
2250718	Chloride	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250461	Sulfate	91.8		P	90 - 110
2250718	Sulfate	94.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250908	Ammonia-N	99.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2251053	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399034

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250875	Total-P	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398987

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250906	O-Phosphate-P	98.0	99.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P399064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2251100	Fluoride	99.1	98.4	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P399096

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2251053	Organic Carbon	101	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250943	Turbidity	13.7	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250461	Chloride	0.637	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250461	Sulfate	1.61	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250908	Ammonia-N	1.77	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250905	Kjeldahl Nitrogen	6.29	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251053	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399034

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250875	Total-P	1.17	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398987

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250906	O-Phosphate-P	1.32	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P399012

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251099	Color (true)	1.44	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P399063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251100	Total Alkalinity	0.360	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P399416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250596	TDS	7.11	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P399519

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250731	TDS	4.29	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P399064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251100	Fluoride	0.506	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P399096

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251053	Organic Carbon	0.461	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: A105764

Included Lab Sample IDs: 2251058, 2251061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.3	P/P	90 - 110
O-Phosphate-P	99.2	97.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A105767

Included Lab Sample IDs: 2251056, 2251059

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.5	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A105768

Included Lab Sample IDs: 2251056, 2251059

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.1	98.7	P/P	90 - 115
Color (true)	98.7	99.4	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A105788

Included Lab Sample IDs: 2251057, 2251060

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

Reference Method: SM 2320 B-2011

Run ID: A105797

Included Lab Sample IDs: 2251056, 2251059

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.5	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A105797

Included Lab Sample IDs: 2251056, 2251059

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

Reference Method: SM 5310 B-2011

Run ID: A105818

Included Lab Sample IDs: 2251057, 2251060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A105840

Included Lab Sample IDs: 2251057, 2251060

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A105840

Included Lab Sample IDs: 2251057, 2251060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105858

Included Lab Sample IDs: 2251057, 2251060

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105942

Included Lab Sample IDs: 2251057, 2251060

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A105956

Included Lab Sample IDs: 2251056, 2251059

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	99.9	P/P	90 - 110
Sulfate	99.4	99.7	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	MS
EPA 180.1 Rev. 2.0	Turbidity				13.7	
EPA 300.0 Rev. 2.1	Chloride	97.3	92.8	97.2	0.637	
	Sulfate	96.2	91.8	94.9	1.61	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	99.2	101		1.77
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104				6.29
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	102	102		0.491
EPA 365.1 Rev. 2.0	Total-P	109	105	104		1.17
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.0	99.3		1.32
SM 2120 B-2011	Color (true)	98.0			1.44	
SM 2320 B-2011	Total Alkalinity	99.8			0.360	
SM 2540 C-2011	TDS				7.11	
	TDS				4.29	
SM 4500 F-C-2011	Fluoride	99.5	99.1	98.4		0.506
SM 5310 B-2011	Organic Carbon	97.6	101	101		0.461

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2251056, 2251059
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2251056, 2251059
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2251056, 2251059
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2251057, 2251060
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2251057, 2251060
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2251057, 2251060
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2251057, 2251060
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2251058, 2251061
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2251056, 2251059
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2251056, 2251059
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2251056, 2251059
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2251056, 2251059
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2251056, 2251059
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2251057, 2251060

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	05/28/2021			05/28/2021 16:00	Sarah A Nixon	2251056, 2251059
EPA 300.0 Rev. 2.1	05/28/2021			06/09/2021 15:55	Lipi Saha	2251056
	05/28/2021			06/09/2021 16:07	Lipi Saha	2251059
EPA 350.1 Rev. 2.0	05/28/2021			06/08/2021 14:04	Roberta Tatti	2251057
	05/28/2021			06/08/2021 14:09	Roberta Tatti	2251060
EPA 351.2 Rev. 2.0	05/28/2021	06/01/2021 13:33	Benjamin T. Nordmann	06/02/2021 17:35	Virginia P. Brown	2251057
	05/28/2021	06/01/2021 13:33	Benjamin T. Nordmann	06/02/2021 17:37	Virginia P. Brown	2251060
EPA 353.2 Rev. 2.0	05/28/2021			06/01/2021 12:05	Beverly Y. Sanders	2251057
	05/28/2021			06/01/2021 12:06	Beverly Y. Sanders	2251060
EPA 365.1 Rev. 2.0	05/28/2021	06/01/2021 13:09	Yen Ta	06/03/2021 16:17	Shengyu Ding	2251060
	05/28/2021	06/01/2021 13:09	Yen Ta	06/03/2021 16:19	Shengyu Ding	2251057
EPA 365.1 Rev. 2.0 dissolved	05/28/2021			05/28/2021 13:05	Lipi Saha	2251061
	05/28/2021			05/28/2021 13:27	Lipi Saha	2251058
SM 2120 B-2011	05/28/2021			05/28/2021 16:57	Madeline Gruver	2251059
	05/28/2021			05/28/2021 17:06	Madeline Gruver	2251056
SM 2320 B-2011	05/28/2021			06/01/2021 20:19	Dale L. Simmons	2251056
	05/28/2021			06/01/2021 20:36	Dale L. Simmons	2251059
SM 2540 C-2011	05/28/2021			06/01/2021 14:02	Yijie Li	2251056, 2251059
SM 2540 D-2011	05/28/2021			06/01/2021 14:02	Yijie Li	2251056, 2251059
SM 4500 F-C-2011	05/28/2021			06/01/2021 20:19	Dale L. Simmons	2251056
	05/28/2021			06/01/2021 20:36	Dale L. Simmons	2251059
SM 5310 B-2011	05/28/2021			06/02/2021 05:54	Madeline Gruver	2251057
	05/28/2021			06/02/2021 06:07	Madeline Gruver	2251060