

Chemical Analysis Report

CEN-DIST-2021-01-19-01

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

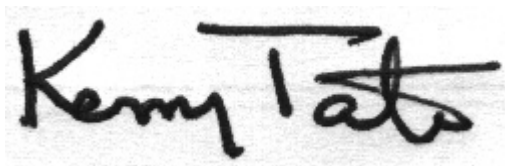
Event Description: **Lake Norris**
Request ID: **RQ-2021-01-04-53**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 09-FEB-2021 10:10

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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: 01/18/2021 11:48

Field ID: G2CE0239

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219930	EPA 180.1 Rev. 2.0	Turbidity	2.8	A	NTU	P392547	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P392734	
		Sulfate	8.7		mg SO4/L	P392736	
	SM 2120 B-2011	Color (true)	760		PCU	P392534	
	SM 2320 B-2011	Total Alkalinity	28		mg CaCO3/L	P392851	
	SM 2540 C-2011	TDS	177		mg/L	P393015	
	SM 2540 D-2011	TSS	2	I	mg/L	P392975	
	SM 4500 F-C-2011	Fluoride	0.085	I	mg F/L	P392854	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P393205	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P393092	
2219931	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P392742	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P392721	
	SM 5310 B-2011	Organic Carbon	58		mg C/L	P392754	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.024		mg P/L	P392546	
	dissolved						
2219932	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.024		mg P/L	P392546	

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: 01/18/2021 12:30

Field ID: FB 01182021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219933	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P392547	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P392734	
		Sulfate	0.20	U	mg SO4/L	P392736	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P392534	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P392851	
	SM 2540 C-2011	TDS	15	U	mg/L	P393015	
	SM 2540 D-2011	TSS	2	U	mg/L	P392975	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P392854	
2219934	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P393205	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P393092	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P392742	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P392721	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P392754	
2219935	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P392546	

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: P392547

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392734

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392736

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393205

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393092

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P392742

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P392721

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392546

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

Reference Method: SM 2120 B-2011
Batch ID: P392534

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P392851

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

Reference Method: SM 2540 C-2011
Batch ID: P393015

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P392975

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P392854

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P392754

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: P392734

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P392736

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P393205

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P393092

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P392742

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: P392721

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P392546

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

Reference Method: SM 2120 B-2011
 Batch ID: P392534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	95.5		P	85 - 115

Reference Method: SM 2320 B-2011
 Batch ID: P392851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.1		P	93 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P392854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.8		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P392754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219600	Chloride	99.0		P	90 - 110
2219939	Chloride	99.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392736

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219600	Sulfate	103		P	90 - 110
2219939	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219920	Ammonia-N	99.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P392742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219944	NO2NO3-N	93.5	92.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P392721

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219943	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219921	O-Phosphate-P	98.5	98.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P392854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219972	Fluoride	99.6	97.9	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P392754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219759	Organic Carbon	102	104	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P392547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219930	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219600	Chloride	0.782	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219600	Sulfate	1.13	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219920	Ammonia-N	1.72	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2220014	Kjeldahl Nitrogen	0.479	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P392742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219944	NO2NO3-N	0.922	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P392721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219943	Total-P	1.12	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392546

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219921	O-Phosphate-P	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P392534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219940	Color (true)	0.457	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P392851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219972	Total Alkalinity	0.568	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P393015

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219939	TDS	0.0	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P392854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219972	Fluoride	1.37	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P392754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219759	Organic Carbon	1.08	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: A103115

Included Lab Sample IDs: 2219930, 2219933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.5	101	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A103120

Included Lab Sample IDs: 2219932, 2219935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	99.0	P/P	90 - 110
O-Phosphate-P	98.5	97.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A103121

Included Lab Sample IDs: 2219930, 2219933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	102	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A103154

Included Lab Sample IDs: 2219930, 2219933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	100	P/P	90 - 110
Sulfate	99.9	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A103180

Included Lab Sample IDs: 2219931, 2219934

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

Reference Method: SM 5310 B-2011

Run ID: A103188

Included Lab Sample IDs: 2219931, 2219934

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A103218

Included Lab Sample IDs: 2219931, 2219934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	94.0	97.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A103220

Included Lab Sample IDs: 2219930, 2219933

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

Reference Method: SM 2320 B-2011

Run ID: A103220

Included Lab Sample IDs: 2219930, 2219933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	91.3	94.4	P/P	90 - 110
Total Alkalinity	94.4	91.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A103220

Included Lab Sample IDs: 2219930, 2219933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	99.5	P/P	90 - 110
Fluoride	99.5	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A103322

Included Lab Sample IDs: 2219931, 2219934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	96.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A103348

Included Lab Sample IDs: 2219931, 2219934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	93.0	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					0.0	
EPA 300.0 Rev. 2.1	Chloride	100	99.0	99.5		0.782	
	Sulfate	102	103	99.4		1.13	
EPA 350.1 Rev. 2.0	Ammonia-N	98.3	99.2	101			1.72
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.8					0.479
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	93.5	92.5			0.922
EPA 365.1 Rev. 2.0	Total-P	106	104	105			1.12
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	98.5	98.5			0.0
SM 2120 B-2011	Color (true)	95.5				0.457	
SM 2320 B-2011	Total Alkalinity	95.1				0.568	
SM 2540 C-2011	TDS					0.0	
SM 4500 F-C-2011	Fluoride	95.8	99.6	97.9			1.37
SM 5310 B-2011	Organic Carbon	98.8	102	104			1.08

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2219930, 2219933
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2219930, 2219933
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2219930, 2219933
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2219931, 2219934
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2219931, 2219934
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2219931, 2219934
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2219931, 2219934
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2219932, 2219935
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2219930, 2219933
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2219930, 2219933
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2219930, 2219933
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2219930, 2219933
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2219930, 2219933
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2219931, 2219934

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	01/19/2021			01/19/2021 14:19	Yen Ta	2219930, 2219933
EPA 300.0 Rev. 2.1	01/19/2021			01/21/2021 18:31	Lipi Saha	2219930
	01/19/2021			01/21/2021 18:43	Lipi Saha	2219933
EPA 350.1 Rev. 2.0	01/19/2021			02/01/2021 18:57	Ping Hua	2219931
	01/19/2021			02/01/2021 19:01	Ping Hua	2219934
EPA 351.2 Rev. 2.0	01/19/2021	01/28/2021 17:00	Yen Ta	01/29/2021 14:57	Julia Storbeck	2219931
	01/19/2021	01/28/2021 17:00	Yen Ta	01/29/2021 14:58	Julia Storbeck	2219934
EPA 353.2 Rev. 2.0	01/19/2021			01/22/2021 10:21	Beverly Y. Sanders	2219931
	01/19/2021			01/22/2021 10:22	Beverly Y. Sanders	2219934
EPA 365.1 Rev. 2.0	01/19/2021	01/21/2021 17:45	Madeline Gruver	01/25/2021 15:31	Shengyu Wang	2219931
	01/19/2021	01/21/2021 17:45	Madeline Gruver	01/25/2021 15:32	Shengyu Wang	2219934
EPA 365.1 Rev. 2.0 dissolved	01/19/2021			01/19/2021 15:06	Blanca Fach	2219932
	01/19/2021			01/19/2021 15:12	Blanca Fach	2219935
SM 2120 B-2011	01/19/2021			01/19/2021 14:57	Benjamin T. Nordmann	2219933
	01/19/2021			01/19/2021 15:02	Benjamin T. Nordmann	2219930
SM 2320 B-2011	01/19/2021			01/21/2021 21:08	Dale L. Simmons	2219930
	01/19/2021			01/21/2021 21:51	Dale L. Simmons	2219933
SM 2540 C-2011	01/19/2021			01/22/2021 15:16	Yijie Li	2219930, 2219933
SM 2540 D-2011	01/19/2021			01/22/2021 15:16	Yijie Li	2219930, 2219933
SM 4500 F-C-2011	01/19/2021			01/21/2021 21:08	Dale L. Simmons	2219930
	01/19/2021			01/21/2021 21:51	Dale L. Simmons	2219933
SM 5310 B-2011	01/19/2021			01/21/2021 21:27	Touraj Touran	2219931
	01/19/2021			01/21/2021 21:39	Touraj Touran	2219934