Chemical Analysis Report

CEN-DIST-2021-01-28-01

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

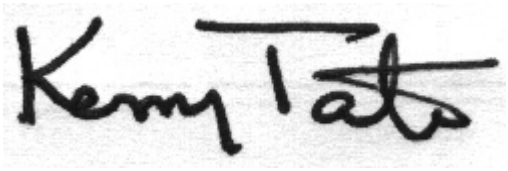
Event Description: **Florida/Adelaide**
Request ID: **RQ-2021-01-25-61**
Customer: **CEN-DIST**
Project ID: **SMP**

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: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 18-FEB-2021 13:25



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 Florida @ Center Of Lake **Collection Date/Time: 01/27/2021 10:01**

Field ID: G2CE0150 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2222016	EPA 180.1 Rev. 2.0	Turbidity	3.6	A	NTU	P393102	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P393372	
		Sulfate	3.9		mg SO4/L	P393375	
	SM 2120 B-2011	Color (true)	75	A	PCU	P393099	
	SM 2320 B-2011	Total Alkalinity	48		mg CaCO3/L	P393235	
	SM 2540 C-2011	TDS	104		mg/L	P393487	
	SM 2540 D-2011	TSS	5	I	mg/L	P393536	
	SM 4500 F-C-2011	Fluoride	0.077	I	mg F/L	P393238	
2222018	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P393467	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P393547	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P393194	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P393325	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P393263	
2222020	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P393087	

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 Adelaide @ Center **Collection Date/Time: 01/27/2021 10:33**

Field ID: G2CE0151 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2222017	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P393102	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P393372	
		Sulfate	8.0		mg SO4/L	P393375	
	SM 2120 B-2011	Color (true)	52		PCU	P393099	
	SM 2320 B-2011	Total Alkalinity	43		mg CaCO3/L	P393235	
	SM 2540 C-2011	TDS	104	A	mg/L	P393487	
	SM 2540 D-2011	TSS	4	I A	mg/L	P393536	
	SM 4500 F-C-2011	Fluoride	0.065	I	mg F/L	P393238	
2222019	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P393467	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92		mg N/L	P393547	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P393194	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P393325	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P393263	
2222021	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P393087	

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: P393102

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393372

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393375

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393467

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393547

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393194

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393325

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P393087

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

Reference Method: SM 2120 B-2011
Batch ID: P393099

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P393235

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P393487

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P393536

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P393238

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P393263

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: P393372

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393375

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393547

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: P393194

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: P393325

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P393087

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

Reference Method: SM 2120 B-2011
Batch ID: P393099

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P393235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	93 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P393238

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.3		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P393263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221957	Chloride	104		P	90 - 110
2222076	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221957	Sulfate	102		P	90 - 110
2222076	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221964	Ammonia-N	98.9	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2222080	Kjeldahl Nitrogen	104	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221989	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393325

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2222018	Total-P	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P393087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2222129	O-Phosphate-P	101	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P393238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221986	Fluoride	101	98.5	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P393263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2222180	Organic Carbon	98.3	99.9	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P393102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2222016	Turbidity	0.281	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221957	Chloride	1.26	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221957	Sulfate	4.50	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221964	Ammonia-N	1.32	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2222080	Kjeldahl Nitrogen	1.64	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221989	NO2NO3-N	0.976	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2222018	Total-P	2.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P393087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2222129	O-Phosphate-P	0.426	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B-2011
Batch ID: P393099

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2222016	Color (true)	2.47	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P393235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221986	Total Alkalinity	0.967	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P393487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2222017	TDS	3.85	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P393238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221986	Fluoride	2.29	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P393263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2222180	Organic Carbon	1.31	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: A103293
Included Lab Sample IDs: 2222020, 2222021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	100	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A103296
Included Lab Sample IDs: 2222016, 2222017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	105	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A103297
Included Lab Sample IDs: 2222016, 2222017

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A103338
Included Lab Sample IDs: 2222018, 2222019

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: A103361
Included Lab Sample IDs: 2222016, 2222017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	92.8	96.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A103361
Included Lab Sample IDs: 2222016, 2222017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	96.4	103	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A103374
Included Lab Sample IDs: 2222018, 2222019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.8	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A103412
Included Lab Sample IDs: 2222016, 2222017

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A103412
Included Lab Sample IDs: 2222016, 2222017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	100	102	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A103444
Included Lab Sample IDs: 2222018, 2222019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.1	97.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A103455
Included Lab Sample IDs: 2222018, 2222019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A103527
Included Lab Sample IDs: 2222018, 2222019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	106	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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					0.281	
EPA 300.0 Rev. 2.1	Chloride	104	104	101		1.26	
	Sulfate	102	102	101		4.50	
EPA 350.1 Rev. 2.0	Ammonia-N	99.5	98.9	101			1.32
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	104	107			1.64
EPA 353.2 Rev. 2.0	NO2NO3-N	102	103	102			0.976
EPA 365.1 Rev. 2.0	Total-P	105	104	107			2.49
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	101	100			0.426
SM 2120 B-2011	Color (true)	102				2.47	
SM 2320 B-2011	Total Alkalinity	98.1				0.967	
SM 2540 C-2011	TDS					3.85	
SM 4500 F-C-2011	Fluoride	95.3	101	98.5			2.29
SM 5310 B-2011	Organic Carbon	98.1	98.3	99.9			1.31

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2222016, 2222017
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2222016, 2222017
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2222016, 2222017
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2222018, 2222019
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2222018, 2222019
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2222018, 2222019
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2222018, 2222019
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2222020, 2222021
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2222016, 2222017
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2222016, 2222017
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2222016, 2222017
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2222016, 2222017
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2222016, 2222017
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2222018, 2222019

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	01/28/2021			01/28/2021 14:59	Yen Ta	2222016, 2222017
EPA 300.0 Rev. 2.1	01/28/2021			02/04/2021 05:32	Lipi Saha	2222016
	01/28/2021			02/04/2021 06:09	Lipi Saha	2222017
EPA 350.1 Rev. 2.0	01/28/2021			02/07/2021 14:22	Ping Hua	2222018
	01/28/2021			02/07/2021 14:23	Ping Hua	2222019
EPA 351.2 Rev. 2.0	01/28/2021	02/09/2021 11:53	Yen Ta	02/10/2021 15:18	Julia Storbeck	2222018
	01/28/2021	02/09/2021 11:53	Yen Ta	02/10/2021 15:20	Julia Storbeck	2222019
EPA 353.2 Rev. 2.0	01/28/2021			02/01/2021 10:55	Beverly Y. Sanders	2222018
	01/28/2021			02/01/2021 10:56	Beverly Y. Sanders	2222019
EPA 365.1 Rev. 2.0	01/28/2021	02/03/2021 16:16	Madeline Gruver	02/05/2021 13:05	Shengyu Wang	2222018
	01/28/2021	02/03/2021 16:16	Madeline Gruver	02/05/2021 13:08	Shengyu Wang	2222019
EPA 365.1 Rev. 2.0 dissolved	01/28/2021			01/28/2021 15:22	Blanca Fach	2222020, 2222021
SM 2120 B-2011	01/28/2021			01/28/2021 17:20	Benjamin T. Nordmann	2222016
	01/28/2021			01/28/2021 17:21	Benjamin T. Nordmann	2222017
SM 2320 B-2011	01/28/2021			02/02/2021 03:47	Dale L. Simmons	2222016
	01/28/2021			02/02/2021 03:59	Dale L. Simmons	2222017
SM 2540 C-2011	01/28/2021			02/02/2021 14:20	Yijie Li	2222016, 2222017
SM 2540 D-2011	01/28/2021			02/02/2021 14:20	Yijie Li	2222016, 2222017
SM 4500 F-C-2011	01/28/2021			02/02/2021 03:47	Dale L. Simmons	2222016
	01/28/2021			02/02/2021 03:59	Dale L. Simmons	2222017
SM 5310 B-2011	01/28/2021			02/01/2021 23:36	Madeline Gruver	2222018
	01/28/2021			02/01/2021 23:48	Madeline Gruver	2222019