

Chemical Analysis Report

CEN-DIST-2021-01-26-01

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

Event Description: **Park/Gem**
Request ID: **RQ-2021-01-25-59**
Customer: **CEN-DIST**
Project ID: **SMP**

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

Date Certified: 16-FEB-2021 14:24

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 Park @ Center

Collection Date/Time: 01/25/2021 13:38

Field ID: G2CE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2221211	EPA 180.1 Rev. 2.0	Turbidity	2.1	A	NTU	P392994	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P393267	
		Sulfate	17		mg SO4/L	P393268	
	SM 2120 B-2011	Color (true)	12		PCU	P392932	
	SM 2320 B-2011	Total Alkalinity	57		mg CaCO3/L	P393052	
	SM 2540 C-2011	TDS	110	A	mg/L	P393480	
	SM 2540 D-2011	TSS	2	IA	mg/L	P393354	
	SM 4500 F-C-2011	Fluoride	0.062	I	mg F/L	P393055	
2221213	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P393460	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59	J	mg N/L	P393304	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.059		mg N/L	P393106	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P393148	
	SM 5310 B-2011	Organic Carbon	6.1		mg C/L	P393186	
2221215	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P392944	

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: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Lake Gem At Center

Collection Date/Time: 01/25/2021 13:25

Field ID: G2CE0204

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2221212	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P392994	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P393267	
		Sulfate	15		mg SO4/L	P393268	
	SM 2120 B-2011	Color (true)	12	A	PCU	P392939	
	SM 2320 B-2011	Total Alkalinity	80	A	mg CaCO3/L	P393052	
	SM 2540 C-2011	TDS	139	A	mg/L	P393481	
	SM 2540 D-2011	TSS	3	IA	mg/L	P393355	
	SM 4500 F-C-2011	Fluoride	0.058	I	mg F/L	P393055	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.29		mg N/L	P393460	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P393304	MS
2221214	EPA 353.2 Rev. 2.0	NO2NO3-N	0.27		mg N/L	P393106	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P393148	
	SM 5310 B-2011	Organic Carbon	6.4		mg C/L	P393186	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P392944	
	dissolved						

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: P392994

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393267

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393268

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393460

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393304

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393106

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393148

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392944

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

Reference Method: SM 2120 B-2011
Batch ID: P392932

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P392939

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P393052

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

Reference Method: SM 2540 C-2011
Batch ID: P393480

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P393481

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P393354

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P393355

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P393055

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P393186

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: P393267

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393268

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393304

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393106

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393148

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: P392944

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

Reference Method: SM 2120 B-2011
Batch ID: P392932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.5		P	85 - 115

Reference Method: SM 2120 B-2011
Batch ID: P392939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P393052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.5		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P393055

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P393186

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2220858	Chloride	96.1		P	90 - 110
2221156	Chloride	96.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393268

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2220858	Sulfate	96.5		P	90 - 110
2221156	Sulfate	96.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221157	Ammonia-N	98.8	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221213	Kjeldahl Nitrogen	109	112	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393106

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221213	NO2NO3-N	99.2	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221201	Total-P	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221216	O-Phosphate-P	102	103	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P393055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221212	Fluoride	102	102	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P393186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221214	Organic Carbon	102	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P392994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221211	Turbidity	2.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2220858	Chloride	0.391	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393268

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2220858	Sulfate	1.50	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221157	Ammonia-N	0.00405	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221213	Kjeldahl Nitrogen	1.45	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393106

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221213	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221201	Total-P	0.478	Sample	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221216	O-Phosphate-P	1.36	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P392932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221123	Color (true)	5.90	Sample	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P392939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221212	Color (true)	8.40	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P393052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221212	Total Alkalinity	1.25	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P393480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221211	TDS	0.905	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P393481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221212	TDS	2.88	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P393055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221212	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P393186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221214	Organic Carbon	0.825	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A103226

Included Lab Sample IDs: 2221211, 2221212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.4	97.8	P/P	90 - 110
Sulfate	97.1	97.6	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A103249

Included Lab Sample IDs: 2221211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	99.2	P/P	90 - 115

Reference Method: SM 2120 B-2011

Run ID: A103255

Included Lab Sample IDs: 2221212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.6	100	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A103257

Included Lab Sample IDs: 2221215, 2221216

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A103269

Included Lab Sample IDs: 2221211, 2221212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	100	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A103284

Included Lab Sample IDs: 2221211, 2221212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.1	95.8	P/P	90 - 110
Total Alkalinity	95.8	91.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A103284

Included Lab Sample IDs: 2221211, 2221212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	104	P/P	90 - 110
Fluoride	104	107	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A103300

Included Lab Sample IDs: 2221213, 2221214

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: A103337

Included Lab Sample IDs: 2221213, 2221214

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.2	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A103362

Included Lab Sample IDs: 2221213, 2221214

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A103409

Included Lab Sample IDs: 2221213, 2221214

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A103455

Included Lab Sample IDs: 2221213, 2221214

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.5	P/P	90 - 110
Ammonia-N	98.5	98.4	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 SMP	MS
					LCS	
EPA 180.1 Rev. 2.0	Turbidity				2.35	
EPA 300.0 Rev. 2.1	Chloride	98.0	96.1	96.9	0.391	
	Sulfate	97.2	96.5	96.5	1.50	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	98.8	98.8		0.0040
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	109	112		1.45
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	99.2	99.2		0.0
EPA 365.1 Rev. 2.0	Total-P	105	104		0.478	
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	102	103		1.36
SM 2120 B-2011	Color (true)	99.5			5.90	
	Color (true)	99.3			8.40	
SM 2320 B-2011	Total Alkalinity	95.5			1.25	
SM 2540 C-2011	TDS				0.905	
	TDS				2.88	
SM 4500 F-C-2011	Fluoride	103	102	102		0.0
SM 5310 B-2011	Organic Carbon	99.9	102	101		0.825

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2221211, 2221212
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2221211, 2221212
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2221211, 2221212
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2221213, 2221214
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2221213, 2221214
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2221213, 2221214
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2221213, 2221214
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2221215, 2221216
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2221211, 2221212
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2221211, 2221212
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2221211, 2221212
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2221211, 2221212
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2221211, 2221212
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2221213, 2221214

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	01/26/2021			01/26/2021 16:32	Yen Ta	2221211, 2221212
EPA 300.0 Rev. 2.1	01/26/2021			01/28/2021 18:48	Lipi Saha	2221211
	01/26/2021			01/28/2021 19:00	Lipi Saha	2221212
EPA 350.1 Rev. 2.0	01/26/2021			02/07/2021 10:50	Ping Hua	2221213
	01/26/2021			02/07/2021 11:57	Ping Hua	2221214
EPA 351.2 Rev. 2.0	01/26/2021	02/03/2021 12:10	Yen Ta	02/03/2021 19:53	Julia Storbeck	2221213
	01/26/2021	02/03/2021 12:10	Yen Ta	02/03/2021 19:58	Julia Storbeck	2221214
EPA 353.2 Rev. 2.0	01/26/2021			01/28/2021 10:30	Beverly Y. Sanders	2221213
	01/26/2021			01/28/2021 10:36	Beverly Y. Sanders	2221214
EPA 365.1 Rev. 2.0	01/26/2021	01/29/2021 17:05	Shengyu Wang	02/02/2021 12:12	Shengyu Wang	2221213
	01/26/2021	01/29/2021 17:05	Shengyu Wang	02/02/2021 12:13	Shengyu Wang	2221214
EPA 365.1 Rev. 2.0 dissolved	01/26/2021			01/26/2021 15:29	Blanca Fach	2221216
	01/26/2021			01/26/2021 15:37	Blanca Fach	2221215
SM 2120 B-2011	01/26/2021			01/26/2021 19:03	Madeline Gruver	2221211
	01/26/2021			01/26/2021 21:18	Madeline Gruver	2221212
SM 2320 B-2011	01/26/2021			01/28/2021 01:06	Dale L. Simmons	2221212
	01/26/2021			01/28/2021 04:18	Dale L. Simmons	2221211
SM 2540 C-2011	01/26/2021			01/29/2021 15:32	Yijie Li	2221211, 2221212
SM 2540 D-2011	01/26/2021			01/29/2021 15:32	Yijie Li	2221211, 2221212
SM 4500 F-C-2011	01/26/2021			01/28/2021 00:55	Dale L. Simmons	2221212
	01/26/2021			01/28/2021 04:18	Dale L. Simmons	2221211
SM 5310 B-2011	01/26/2021			01/29/2021 17:08	Madeline Gruver	2221214
	01/26/2021			01/29/2021 18:25	Madeline Gruver	2221213