

Chemical Analysis Report

CEN-DIST-2021-03-16-01

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

Event Description: **Lake Belle / Lake Leonore**
Request ID: **RQ-2021-03-01-13**
Customer: **CEN-DIST**
Project ID: **SMP**

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Date Certified: 05-APR-2021 16:29



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 Downey @ Center

Collection Date/Time: 03/15/2021 12:54

Field ID: G2CE0227

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2231616	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P395035	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P395298	
		Sulfate	4.3		mg SO4/L	P395302	
	SM 2120 B-2011	Color (true)	33		PCU	P395050	
	SM 2320 B-2011	Total Alkalinity	9.8		mg CaCO3/L	P395226	
	SM 2540 C-2011	TDS	64		mg/L	P395590	
	SM 2540 D-2011	TSS	2	I	mg/L	P395598	
	SM 4500 F-C-2011	Fluoride	0.041	I	mg F/L	P395232	
2231618	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P395254	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P395284	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P395077	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P395104	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P395519	
2231620	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P395043	

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: Ruth Lake @ Center

Collection Date/Time: 03/15/2021 10:57

Field ID: G3CE0021

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2231617	EPA 180.1 Rev. 2.0	Turbidity	8.4		NTU	P395035	
	EPA 300.0 Rev. 2.1	Chloride	320		mg Cl/L	P395298	
		Sulfate	93		mg SO4/L	P395302	
		Color (true)	180		PCU	P395050	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P395226	
	SM 2540 C-2011	TDS	776		mg/L	P395590	
	SM 2540 D-2011	TSS	6	I	mg/L	P395598	
	SM 4500 F-C-2011	Fluoride	0.16		mg F/L	P395232	
2231619	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P395254	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P395284	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P395077	
	EPA 365.1 Rev. 2.0	Total-P	0.079		mg P/L	P395104	
	SM 5310 B-2011	Organic Carbon	26		mg C/L	P395519	
2231621	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P395043	

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: P395035

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395298

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395302

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P395254

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395284

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P395077

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P395104

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P395043

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

Reference Method: SM 2120 B-2011
Batch ID: P395050

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P395226

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

Reference Method: SM 2540 C-2011
Batch ID: P395590

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P395598

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P395232

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P395519

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: P395298

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395302

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P395254

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395284

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: P395077

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: P395104

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: P395043

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

Reference Method: SM 2120 B-2011
Batch ID: P395050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P395226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P395232

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P395519

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: P395298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231575	Chloride	101		P	90 - 110
2231693	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395302

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231575	Sulfate	97.3		P	90 - 110
2231693	Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P395254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231591	Ammonia-N	98.0	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231537	Kjeldahl Nitrogen	111	107	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P395077

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231578	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P395104

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231548	Total-P	105	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P395043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231592	O-Phosphate-P	97.2	99.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P395232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231841	Fluoride	99.4	99.4	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P395519

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231591	Organic Carbon	95.5	97.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P395035

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231590	Turbidity	0.889	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P395298

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231575	Chloride	0.468	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P395302

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231575	Sulfate	0.723	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P395254

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231591	Ammonia-N	1.70	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P395284

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231537	Kjeldahl Nitrogen	4.15	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P395077

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231578	NO2NO3-N	0.394	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P395104

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231548	Total-P	1.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P395043

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231592	O-Phosphate-P	2.05	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P395050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231590	Color (true)	2.64	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P395226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231841	Total Alkalinity	0.340	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P395590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231577	TDS	2.68	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P395232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231841	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P395519

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231591	Organic Carbon	1.80	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A104090

Included Lab Sample IDs: 2231616, 2231617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	102	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A104091

Included Lab Sample IDs: 2231620, 2231621

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.0	97.7	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A104092

Included Lab Sample IDs: 2231616, 2231617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	104	P/P	90 - 115
Color (true)	104	103	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A104102

Included Lab Sample IDs: 2231618, 2231619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A104133

Included Lab Sample IDs: 2231619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	106	107	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A104153

Included Lab Sample IDs: 2231616, 2231617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	100	P/P	90 - 110
Sulfate	98.9	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A104154

Included Lab Sample IDs: 2231618

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

Reference Method: SM 2320 B-2011

Run ID: A104172

Included Lab Sample IDs: 2231616, 2231617

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: A104172

Included Lab Sample IDs: 2231616, 2231617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.6	96.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A104172

Included Lab Sample IDs: 2231616, 2231617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A104179

Included Lab Sample IDs: 2231618, 2231619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A104250

Included Lab Sample IDs: 2231618, 2231619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.8	98.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A104292

Included Lab Sample IDs: 2231618, 2231619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	95.6	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					0.889	
EPA 300.0 Rev. 2.1	Chloride	99.9	101	100		0.468	
	Sulfate	97.6	97.3	97.5		0.723	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	98.0	100			1.70
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	111	107			4.15
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	103	103			0.394
EPA 365.1 Rev. 2.0	Total-P	104	105	107			1.69
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	104	97.2	99.3			2.05
SM 2120 B-2011	Color (true)	102				2.64	
SM 2320 B-2011	Total Alkalinity	101				0.340	
SM 2540 C-2011	TDS					2.68	
SM 4500 F-C-2011	Fluoride	102	99.4	99.4			0.0
SM 5310 B-2011	Organic Carbon	95.2	95.5	97.5			1.80

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2231616, 2231617
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2231616, 2231617
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2231616, 2231617
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2231618, 2231619
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2231618, 2231619
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2231618, 2231619
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2231618, 2231619
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2231620, 2231621
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2231616, 2231617
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2231616, 2231617
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2231616, 2231617
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2231616, 2231617
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2231616, 2231617
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2231618, 2231619

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	03/16/2021			03/16/2021 16:11	Yen Ta	2231616, 2231617
EPA 300.0 Rev. 2.1	03/16/2021			03/19/2021 21:10	Lipi Saha	2231616
	03/16/2021			03/19/2021 21:22	Lipi Saha	2231617
EPA 350.1 Rev. 2.0	03/16/2021			03/20/2021 12:33	Ping Hua	2231618
	03/16/2021			03/20/2021 12:35	Ping Hua	2231619
EPA 351.2 Rev. 2.0	03/16/2021	03/22/2021 13:25	Benjamin T. Nordmann	03/23/2021 23:03	Julia Storbeck	2231618
	03/16/2021	03/22/2021 13:25	Benjamin T. Nordmann	03/23/2021 23:05	Julia Storbeck	2231619
EPA 353.2 Rev. 2.0	03/16/2021			03/17/2021 10:24	Beverly Y. Sanders	2231618
	03/16/2021			03/17/2021 10:25	Beverly Y. Sanders	2231619
EPA 365.1 Rev. 2.0	03/16/2021	03/17/2021 13:18	Yen Ta	03/18/2021 12:35	Shengyu Ding	2231619
	03/16/2021	03/17/2021 13:18	Yen Ta	03/18/2021 16:18	Shengyu Ding	2231618
EPA 365.1 Rev. 2.0 dissolved	03/16/2021			03/16/2021 15:18	Patrick M. Roche	2231620
	03/16/2021			03/16/2021 15:19	Patrick M. Roche	2231621
SM 2120 B-2011	03/16/2021			03/16/2021 18:33	Benjamin T. Nordmann	2231616
	03/16/2021			03/16/2021 18:46	Benjamin T. Nordmann	2231617
SM 2320 B-2011	03/16/2021			03/19/2021 01:39	Dale L. Simmons	2231616
	03/16/2021			03/19/2021 01:54	Dale L. Simmons	2231617
SM 2540 C-2011	03/16/2021			03/19/2021 15:21	Yijie Li	2231616, 2231617
SM 2540 D-2011	03/16/2021			03/19/2021 15:21	Yijie Li	2231616, 2231617
SM 4500 F-C-2011	03/16/2021			03/19/2021 01:39	Dale L. Simmons	2231616
	03/16/2021			03/19/2021 01:54	Dale L. Simmons	2231617
SM 5310 B-2011	03/16/2021			03/26/2021 01:50	Madeline Gruver	2231618
	03/16/2021			03/26/2021 02:01	Madeline Gruver	2231619