

Chemical Analysis Report

CEN-DIST-2021-01-27-01

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

Event Description: **Ann/ Theresa**
Request ID: **RQ-2021-01-25-60**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Date Certified: 17-FEB-2021 18:47



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 Ann @ Center

Collection Date/Time: 01/26/2021 10:37

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2221586	EPA 180.1 Rev. 2.0	Turbidity	4.2	A	NTU	P393074	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P393370	
		Sulfate	13		mg SO4/L	P393373	
	SM 2120 B-2011	Color (true)	23		PCU	P393059	
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P393215	
	SM 2540 C-2011	TDS	91		mg/L	P393483	
	SM 2540 D-2011	TSS	4	I	mg/L	P393357	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P393218	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P393463	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P393259	
2221588	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P393191	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P393248	
	SM 5310 B-2011	Organic Carbon	7.8		mg C/L	P393187	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	UJ	mg P/L	P393113	MS
	dissolved						

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.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Lake Theresa @ Center

Collection Date/Time: 01/26/2021 11:24

Field ID: G4CE0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2221587	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P393074	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P393370	
		Sulfate	4.1		mg SO4/L	P393373	
	SM 2120 B-2011	Color (true)	36		PCU	P393059	
	SM 2320 B-2011	Total Alkalinity	85		mg CaCO3/L	P393215	
	SM 2540 C-2011	TDS	136		mg/L	P393483	
	SM 2540 D-2011	TSS	3	I	mg/L	P393357	
2221589	SM 4500 F-C-2011	Fluoride	0.082	I	mg F/L	P393218	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P393463	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P393259	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P393191	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P393248	
2221591	SM 5310 B-2011	Organic Carbon	13		mg C/L	P393187	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.038		mg P/L	P393113	MS

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: P393074

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393370

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393373

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393463

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393259

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393191

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393248

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P393113

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

Reference Method: SM 2120 B-2011
Batch ID: P393059

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P393215

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

Reference Method: SM 2540 C-2011
Batch ID: P393483

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P393357

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P393218

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P393187

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: P393370

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393373

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393259

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393191

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: P393248

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: P393113

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

Reference Method: SM 2120 B-2011
Batch ID: P393059

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

Reference Method: SM 2320 B-2011
Batch ID: P393215

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.6		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P393218

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P393187

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221286	Chloride	101		P	90 - 110
2221527	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221286	Sulfate	101		P	90 - 110
2221527	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221538	Ammonia-N	97.8	98.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393191

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221588	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393248

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221528	Total-P	105	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P393113

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221590	O-Phosphate-P	79.8	79.2	F/F	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P393218

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221631	Fluoride	102	102	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P393187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2221589	Organic Carbon	98.6	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P393074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221586	Turbidity	13.5	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221527	Chloride	0.397	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P393373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221527	Sulfate	0.201	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221538	Ammonia-N	0.458	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221605	Kjeldahl Nitrogen	2.47	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P393191

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221588	NO2NO3-N	0.482	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P393248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221528	Total-P	1.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P393113

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221590	O-Phosphate-P	0.755	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P393059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221633	Color (true)	2.18	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P393215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221631	Total Alkalinity	0.608	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P393483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221527	TDS	4.26	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P393218

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221631	Fluoride	0.495	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P393187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2221589	Organic Carbon	1.67	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: A103286

Included Lab Sample IDs: 2221586, 2221587

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A103288

Included Lab Sample IDs: 2221586, 2221587

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A103306

Included Lab Sample IDs: 2221590, 2221591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A103337

Included Lab Sample IDs: 2221588, 2221589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	100	P/P	90 - 110
Organic Carbon	102	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A103338

Included Lab Sample IDs: 2221588, 2221589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A103352

Included Lab Sample IDs: 2221586, 2221587

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.2	93.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A103352

Included Lab Sample IDs: 2221586, 2221587

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A103391

Included Lab Sample IDs: 2221589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	98.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A103395

Included Lab Sample IDs: 2221588, 2221589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	94.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A103412

Included Lab Sample IDs: 2221586, 2221587

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A103417

Included Lab Sample IDs: 2221588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A103455

Included Lab Sample IDs: 2221588, 2221589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	99.1	P/P	90 - 110
Ammonia-N	98.5	97.7	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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					13.5	
EPA 300.0 Rev. 2.1	Chloride	100	100	101		0.397	
	Sulfate	100	99.4	101		0.201	
EPA 350.1 Rev. 2.0	Ammonia-N	99.7	97.8	98.4			0.458
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106					2.47
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	102	101			0.482
EPA 365.1 Rev. 2.0	Total-P	106	105	107			1.69
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	79.8	79.2			0.755
SM 2120 B-2011	Color (true)	102				2.18	
SM 2320 B-2011	Total Alkalinity	95.6				0.608	
SM 2540 C-2011	TDS					4.26	
SM 4500 F-C-2011	Fluoride	97.6	102	102			0.495
SM 5310 B-2011	Organic Carbon	101	98.6	101			1.67

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2221586, 2221587
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2221586, 2221587
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2221586, 2221587
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2221588, 2221589
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2221588, 2221589
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2221588, 2221589
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2221588, 2221589
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2221590, 2221591
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2221586, 2221587
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2221586, 2221587
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2221586, 2221587
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2221586, 2221587
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2221586, 2221587
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2221588, 2221589

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	01/27/2021			01/27/2021 16:06	Yen Ta	2221586, 2221587
EPA 300.0 Rev. 2.1	01/27/2021			02/03/2021 19:29	Lipi Saha	2221586
	01/27/2021			02/03/2021 19:41	Lipi Saha	2221587
EPA 350.1 Rev. 2.0	01/27/2021			02/07/2021 12:12	Ping Hua	2221589
	01/27/2021			02/07/2021 12:26	Ping Hua	2221588
EPA 351.2 Rev. 2.0	01/27/2021	02/02/2021 11:48	Yen Ta	02/03/2021 15:45	Julia Storbeck	2221588
	01/27/2021	02/02/2021 11:48	Yen Ta	02/03/2021 15:46	Julia Storbeck	2221589
EPA 353.2 Rev. 2.0	01/27/2021			02/01/2021 09:37	Beverly Y. Sanders	2221588
	01/27/2021			02/01/2021 09:43	Beverly Y. Sanders	2221589
EPA 365.1 Rev. 2.0	01/27/2021	02/02/2021 13:00	Lipi Saha	02/03/2021 14:32	Shengyu Wang	2221589
	01/27/2021	02/02/2021 13:00	Lipi Saha	02/04/2021 12:31	Shengyu Wang	2221588
EPA 365.1 Rev. 2.0 dissolved	01/27/2021			01/27/2021 19:22	Virginia P. Brown	2221590
	01/27/2021			01/27/2021 19:24	Virginia P. Brown	2221591
SM 2120 B-2011	01/27/2021			01/27/2021 16:01	Blanca Fach	2221586, 2221587
SM 2320 B-2011	01/27/2021			01/30/2021 00:57	Dale L. Simmons	2221586
	01/27/2021			01/30/2021 01:09	Dale L. Simmons	2221587
SM 2540 C-2011	01/27/2021			01/29/2021 15:32	Yijie Li	2221586, 2221587
SM 2540 D-2011	01/27/2021			01/29/2021 15:32	Yijie Li	2221586, 2221587
SM 4500 F-C-2011	01/27/2021			01/30/2021 00:57	Dale L. Simmons	2221586
	01/27/2021			01/30/2021 01:09	Dale L. Simmons	2221587
SM 5310 B-2011	01/27/2021			01/29/2021 23:20	Madeline Gruver	2221589
	01/27/2021			01/30/2021 03:12	Madeline Gruver	2221588