

Chemical Analysis Report

TLH-ROC-2020-08-20-01

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

Event Description: **Run 6**
Request ID: **RQ-2020-08-10-39**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Date Certified: 09-SEP-2020 16:40



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: Rattlesnake Lake Center

Collection Date/Time: 08/19/2020 11:45

Field ID: G3TLHR0013

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2191295	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P386344	
	EPA 300.0 Rev. 2.1	Chloride	2.0		mg Cl/L	P386377	
		Sulfate	0.94		mg SO4/L	P386380	
	SM 2120 B-2011	Color (true)	5.9	IA	PCU	P386351	
	SM 2320 B-2011	Total Alkalinity	0.98	I	mg CaCO3/L	P386454	
	SM 2540 C-2011	TDS	15	I	mg/L	P386742	
	SM 2540 D-2011	TSS	2	U	mg/L	P386575	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P386458	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P386433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29		mg N/L	P386400	
2191297	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P386473	
	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P386396	
	SM 5310 B-2011	Organic Carbon	3.6		mg C/L	P386548	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P386363	
	dissolved						

Ref. Method and Comment:

SM 2120 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Merial Lake Center

Collection Date/Time: 08/19/2020 10:45

Field ID: G3TLHR0014

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2191296	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P386344	
	EPA 300.0 Rev. 2.1	Chloride	2.9		mg Cl/L	P386377	
		Sulfate	2.1		mg SO4/L	P386380	
	SM 2120 B-2011	Color (true)	3.1	I	PCU	P386351	
	SM 2320 B-2011	Total Alkalinity	0.80	I	mg CaCO3/L	P386454	
	SM 2540 C-2011	TDS	16	I	mg/L	P386742	
	SM 2540 D-2011	TSS	2	U	mg/L	P386575	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P386458	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P386433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.20		mg N/L	P386400	
2191298	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P386473	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P386396	
	SM 5310 B-2011	Organic Carbon	2.5		mg C/L	P386548	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P386363	
	dissolved						

Ref. Method and Comment:

SM 2120 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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: P386344

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386377

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386433

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386400

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386473

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386396

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386363

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

Reference Method: SM 2120 B-2011
Batch ID: P386351

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P386454

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

Reference Method: SM 2540 C-2011
Batch ID: P386742

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P386575

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P386458

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P386548

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: P386377

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386400

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386473

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: P386396

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: P386363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.6		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P386351

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.9		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P386454

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: P386458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P386548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190820	Chloride	99.0		P	90 - 110
2190962	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190820	Sulfate	99.7		P	90 - 110
2190962	Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191297	Ammonia-N	98.0	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191298	Kjeldahl Nitrogen	99.5	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191343	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191297	Total-P	106	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191299	O-Phosphate-P	98.5	99.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P386458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191305	Fluoride	101	101	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P386548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191730	Organic Carbon	99.8	99.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191306	Turbidity	3.65	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190820	Chloride	1.76	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190820	Sulfate	0.620	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191297	Ammonia-N	0.390	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191298	Kjeldahl Nitrogen	2.06	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191343	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191297	Total-P	0.847	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191299	O-Phosphate-P	1.01	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P386454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191305	Total Alkalinity	0.422	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P386742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191305	TDS	2.25	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P386458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191305	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P386548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191730	Organic Carbon	0.0811	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: A100543

Included Lab Sample IDs: 2191295, 2191296

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A100567

Included Lab Sample IDs: 2191295, 2191296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	100	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A100568

Included Lab Sample IDs: 2191295, 2191296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.2	99.5	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100570

Included Lab Sample IDs: 2191299, 2191300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100597

Included Lab Sample IDs: 2191297, 2191298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	98.4	P/P	90 - 110
Ammonia-N	98.4	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A100606

Included Lab Sample IDs: 2191295, 2191296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.9	98.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A100606

Included Lab Sample IDs: 2191295, 2191296

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100612

Included Lab Sample IDs: 2191297, 2191298

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100612

Included Lab Sample IDs: 2191297, 2191298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.7	94.6	P/P	90 - 110
Kjeldahl Nitrogen	95.8	93.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100618

Included Lab Sample IDs: 2191297, 2191298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100634

Included Lab Sample IDs: 2191297, 2191298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	95.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A100654

Included Lab Sample IDs: 2191297, 2191298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	95.4	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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					3.65	
EPA 300.0 Rev. 2.1	Chloride	98.7	99.0	97.9		1.76	
	Sulfate	99.5	99.7	98.4		0.620	
EPA 350.1 Rev. 2.0	Ammonia-N	99.4	98.0	97.6			0.390
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.4	99.5	97.2			2.06
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	102	102			0.491
EPA 365.1 Rev. 2.0	Total-P	104	106	107			0.847
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.6	98.5	99.5			1.01
SM 2120 B-2011	Color (true)	97.9					
SM 2320 B-2011	Total Alkalinity	101				0.422	
SM 2540 C-2011	TDS					2.25	
SM 4500 F-C-2011	Fluoride	99.0	101	101			0.0
SM 5310 B-2011	Organic Carbon	100	99.8	99.7			0.0811

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2191295, 2191296
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2191295, 2191296
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2191295, 2191296
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2191297, 2191298
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2191297, 2191298
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2191297, 2191298
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2191297, 2191298
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2191299, 2191300
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2191295, 2191296
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2191295, 2191296
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2191295, 2191296
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2191295, 2191296
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2191295, 2191296
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2191297, 2191298

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	08/20/2020			08/20/2020 15:09	Yen Ta	2191295, 2191296
EPA 300.0 Rev. 2.1	08/20/2020			08/21/2020 01:43	Julia Storbeck	2191295
	08/20/2020			08/21/2020 01:55	Julia Storbeck	2191296
EPA 350.1 Rev. 2.0	08/20/2020			08/22/2020 15:25	Ping Hua	2191297
	08/20/2020			08/22/2020 15:36	Ping Hua	2191298
EPA 351.2 Rev. 2.0	08/20/2020	08/21/2020 09:05	David Boose	08/24/2020 10:07	Virginia P. Brown	2191298
	08/20/2020	08/21/2020 09:05	David Boose	08/24/2020 10:23	Virginia P. Brown	2191297
EPA 353.2 Rev. 2.0	08/20/2020			08/24/2020 11:24	Beverly Y. Sanders	2191297
	08/20/2020			08/24/2020 11:25	Beverly Y. Sanders	2191298
EPA 365.1 Rev. 2.0	08/20/2020	08/21/2020 12:26	Yen Ta	08/25/2020 12:42	Lipi Saha	2191297
	08/20/2020	08/21/2020 12:26	Yen Ta	08/25/2020 12:43	Lipi Saha	2191298
EPA 365.1 Rev. 2.0 dissolved	08/20/2020			08/20/2020 15:43	Blanca Fach	2191299
	08/20/2020			08/20/2020 15:45	Blanca Fach	2191300
SM 2120 B-2011	08/20/2020			08/20/2020 15:50	Benjamin T. Nordmann	2191295
	08/20/2020			08/20/2020 15:51	Benjamin T. Nordmann	2191296
SM 2320 B-2011	08/20/2020			08/21/2020 19:46	Dale L. Simmons	2191295
	08/20/2020			08/21/2020 19:55	Dale L. Simmons	2191296
SM 2540 C-2011	08/20/2020			08/21/2020 19:30	Madeline Gruver	2191295, 2191296
SM 2540 D-2011	08/20/2020			08/21/2020 19:30	Madeline Gruver	2191295, 2191296
SM 4500 F-C-2011	08/20/2020			08/21/2020 19:46	Dale L. Simmons	2191295
	08/20/2020			08/21/2020 19:55	Dale L. Simmons	2191296
SM 5310 B-2011	08/20/2020			08/25/2020 19:48	Lauren Lees	2191297
	08/20/2020			08/25/2020 20:01	Lauren Lees	2191298