

Chemical Analysis Report

SO-DIST-2021-10-29-01

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

Event Description: **2021 SMP : Lake Glenada & Jackson Creek**
Request ID: **RQ-2021-10-25-55**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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Date Certified: 19-NOV-2021 15:11



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 Glenada

Collection Date/Time: 10/28/2021 10:05

Field ID: G4SD0179

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2286675	EPA 180.1 Rev. 2.0	Turbidity	9.9		NTU	P405776	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P406038	
		Sulfate	14		mg SO4/L	P406041	
	SM 2120 B-2011	Color (true)	36	A	PCU	P405767	
	SM 2320 B-2011	Total Alkalinity	38		mg CaCO3/L	P406012	
	SM 2540 C-2011	TDS	121		mg/L	P406284	
	SM 2540 D-2011	TSS	6	I	mg/L	P406278	
	SM 4500 F-C-2011	Fluoride	0.085	I	mg F/L	P406014	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.17		mg N/L	P406066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P406415	
2286676	EPA 353.2 Rev. 2.0	NO2NO3-N	0.081		mg N/L	P405846	
	EPA 365.1 Rev. 2.0	Total-P	0.047		mg P/L	P405911	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P405838	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P405768	
	dissolved						

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: 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: JacksonCreek@Weir

Collection Date/Time: 10/28/2021 11:15

Field ID: G4SD0204

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2286678	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P405776	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P406038	
		Sulfate	18		mg SO4/L	P406041	
	SM 2120 B-2011	Color (true)	190		PCU	P405767	
	SM 2320 B-2011	Total Alkalinity	3.8		mg CaCO3/L	P406012	
	SM 2540 C-2011	TDS	103		mg/L	P406284	
	SM 2540 D-2011	TSS	3	I	mg/L	P406278	
	SM 4500 F-C-2011	Fluoride	0.043	I	mg F/L	P406014	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P406066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P406415	
2286679	EPA 353.2 Rev. 2.0	NO2NO3-N	1.3		mg N/L	P405846	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P405911	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P405838	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.050		mg P/L	P405768	
	dissolved						

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: 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: P405776

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406038

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406041

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406066

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406415

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405846

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405911

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405768

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

Reference Method: SM 2120 B-2011
Batch ID: P405767

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P406012

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

Reference Method: SM 2540 C-2011
Batch ID: P406284

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P406278

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P406014

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P405838

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: P406038

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406041

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406415

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405846

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: P405911

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: P405768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.3		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P405767

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

Reference Method: SM 2320 B-2011
Batch ID: P406012

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P406014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P405838

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286577	Chloride	99.9		P	90 - 110
2286670	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286577	Sulfate	101		P	90 - 110
2286670	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286609	Ammonia-N	95.2	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2288506	Kjeldahl Nitrogen	99.6	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286578	NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286654	Total-P	108	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286699	O-Phosphate-P	97.7	97.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P406014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286492	Fluoride	99.9	101	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P405838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286687	Organic Carbon	99.6	98.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P405776

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286670	Turbidity	0.686	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286577	Chloride	3.30	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286609	Ammonia-N	1.87	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2288506	Kjeldahl Nitrogen	2.51	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286578	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286654	Total-P	0.781	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286699	O-Phosphate-P	0.102	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P405767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286675	Color (true)	0.982	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P406012

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286492	Total Alkalinity	2.24	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P406284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286184	TDS	8.85	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P406014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286492	Fluoride	0.483	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P405838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286687	Organic Carbon	0.367	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: A108619

Included Lab Sample IDs: 2286675, 2286678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	101	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A108620

Included Lab Sample IDs: 2286677, 2286680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	97.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A108623

Included Lab Sample IDs: 2286675, 2286678

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

Reference Method: SM 5310 B-2011

Run ID: A108656

Included Lab Sample IDs: 2286676, 2286679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.9	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108660

Included Lab Sample IDs: 2286676, 2286679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.0	P/P	90 - 110
NO2NO3-N	98.0	98.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A108714

Included Lab Sample IDs: 2286675, 2286678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.2	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A108714

Included Lab Sample IDs: 2286675, 2286678

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108724

Included Lab Sample IDs: 2286679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A108733

Included Lab Sample IDs: 2286675, 2286678

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A108743

Included Lab Sample IDs: 2286676, 2286679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108758

Included Lab Sample IDs: 2286676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A108965

Included Lab Sample IDs: 2286676, 2286679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.6	94.4	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					0.686	
EPA 300.0 Rev. 2.1	Chloride	99.4	99.9	100		3.30	
	Sulfate	101	101	102			
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	95.2	97.0			1.87
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.3	99.6	104			2.51
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	99.0	99.0			0.0
EPA 365.1 Rev. 2.0	Total-P	106	108	109			0.781
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.3	97.7	97.6			0.102
SM 2120 B-2011	Color (true)	102				0.982	
SM 2320 B-2011	Total Alkalinity	101				2.24	
SM 2540 C-2011	TDS					8.85	
SM 4500 F-C-2011	Fluoride	100	99.9	101			0.483
SM 5310 B-2011	Organic Carbon	99.4	99.6	98.8			0.367

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2286675, 2286678
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2286675, 2286678
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2286675, 2286678
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2286676, 2286679
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2286676, 2286679
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2286676, 2286679
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2286676, 2286679
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2286677, 2286680
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2286675, 2286678
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2286675, 2286678
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2286675, 2286678
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2286675, 2286678
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2286675, 2286678
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2286676, 2286679

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	10/29/2021			10/29/2021 15:26	Khloe J Berg	2286675, 2286678
EPA 300.0 Rev. 2.1	10/29/2021			11/04/2021 01:26	Roberta Tatti	2286675
	10/29/2021			11/04/2021 01:38	Roberta Tatti	2286678
EPA 350.1 Rev. 2.0	10/29/2021			11/04/2021 13:00	Ping Hua	2286676
	10/29/2021			11/04/2021 13:01	Ping Hua	2286679
EPA 351.2 Rev. 2.0	10/29/2021	11/17/2021 12:10	Benjamin T. Nordmann	11/18/2021 10:31	Alexandra J Mattheus	2286676
	10/29/2021	11/17/2021 12:10	Benjamin T. Nordmann	11/18/2021 10:33	Alexandra J Mattheus	2286679
EPA 353.2 Rev. 2.0	10/29/2021			11/02/2021 10:09	Beverly Y. Sanders	2286676
	10/29/2021			11/02/2021 11:20	Beverly Y. Sanders	2286679
EPA 365.1 Rev. 2.0	10/29/2021	11/03/2021 16:35	Simonne.V. Calhoun	11/04/2021 14:21	Lipi Saha	2286679
	10/29/2021	11/03/2021 16:35	Simonne.V. Calhoun	11/05/2021 15:45	Sarah A Nixon	2286676
EPA 365.1 Rev. 2.0 dissolved	10/29/2021			10/29/2021 14:47	James L Waggeberby	2286677
	10/29/2021			10/29/2021 14:48	James L Waggeberby	2286680
SM 2120 B-2011	10/29/2021			10/29/2021 15:17	Benjamin T. Nordmann	2286675
	10/29/2021			10/29/2021 15:23	Benjamin T. Nordmann	2286678
SM 2320 B-2011	10/29/2021			11/02/2021 19:49	Dale L. Simmons	2286675
	10/29/2021			11/02/2021 19:59	Dale L. Simmons	2286678
SM 2540 C-2011	10/29/2021			11/01/2021 14:21	Yijie Li	2286675, 2286678
SM 2540 D-2011	10/29/2021			11/01/2021 14:21	Yijie Li	2286675, 2286678
SM 4500 F-C-2011	10/29/2021			11/02/2021 19:49	Dale L. Simmons	2286675
	10/29/2021			11/02/2021 19:59	Dale L. Simmons	2286678
SM 5310 B-2011	10/29/2021			11/02/2021 03:28	Khloe J Berg	2286676
	10/29/2021			11/02/2021 03:43	Khloe J Berg	2286679