Chemical Analysis Report

CEN-DIST-2020-09-18-01

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

Event Description: **Condel**
Request ID: **RQ-2020-08-17-55**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-OCT-2020 08:29

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 Poinsett @ Center **Collection Date/Time: 09/17/2020 12:20**

Field ID: G3CE0027 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2196958	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P387557	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P388029	
		Sulfate	14		mg SO4/L	P388031	
	SM 2120 B-2011	Color (true)	370		PCU	P387561	
	SM 2320 B-2011	Total Alkalinity	63		mg CaCO3/L	P387737	
	SM 2540 C-2011	TDS	329		mg/L	P388008	
	SM 2540 D-2011	TSS	4	I	mg/L	P387959	
	SM 4500 F-C-2011	Fluoride	0.12		mg F/L	P387739	
2196960	EPA 350.1 Rev. 2.0	Ammonia-N	0.094		mg N/L	P387588	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P387687	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P387650	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P387859	
	SM 5310 B-2011	Organic Carbon	31		mg C/L	P387836	
2196962	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P387569	

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: Lake Lurna @ Center **Collection Date/Time: 09/17/2020 13:30**

Field ID: G4CE0195 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2196959	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P387557	
	EPA 300.0 Rev. 2.1	Chloride	7.3		mg Cl/L	P388029	
		Sulfate	10		mg SO4/L	P388031	
	SM 2120 B-2011	Color (true)	12		PCU	P387561	
	SM 2320 B-2011	Total Alkalinity	49		mg CaCO3/L	P387737	
	SM 2540 C-2011	TDS	73		mg/L	P388008	
	SM 2540 D-2011	TSS	2	I	mg/L	P387959	
	SM 4500 F-C-2011	Fluoride	0.056	I	mg F/L	P387739	
2196961	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P387588	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P387687	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P387650	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P387859	
	SM 5310 B-2011	Organic Carbon	3.2		mg C/L	P387836	
2196963	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P387569	

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: P387557

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P388029

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P388031

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387588

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387687

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387650

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387859

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P387569

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

Reference Method: SM 2120 B-2011
Batch ID: P387561

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P387737

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P388008

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P387959

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P387739

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P387836

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: P388029

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P388031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387588

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	105		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387687

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387650

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387859

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: P387569

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

Reference Method: SM 2120 B-2011
Batch ID: P387561

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.8		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P387737

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P387739

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P387836

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P388029

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196930	Chloride	103		P	90 - 110
2197208	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P388031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196930	Sulfate	98.1		P	90 - 110
2197208	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387588

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196961	Ammonia-N	99.2	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2197017	Kjeldahl Nitrogen	106	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196639	NO2NO3-N	98.3	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196931	Total-P	107	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P387569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196963	O-Phosphate-P	99.8	99.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P387739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196930	Fluoride	94.0	95.0	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P387836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2196931	Organic Carbon	98.8	102	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P387557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196936	Turbidity	2.17	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P388029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196930	Chloride	0.734	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P388031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196930	Sulfate	0.446	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196961	Ammonia-N	0.466	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2197017	Kjeldahl Nitrogen	0.984	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196639	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196931	Total-P	3.18	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P387569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196963	O-Phosphate-P	0.100	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B-2011
Batch ID: P387561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196930	Color (true)	1.33	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P387737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196930	Total Alkalinity	2.21	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P388008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196930	TDS	0.803	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P387739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196930	Fluoride	0.948	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P387836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2196931	Organic Carbon	2.20	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: A101082
Included Lab Sample IDs: 2196958, 2196959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: SM 2120 B-2011
Run ID: A101083
Included Lab Sample IDs: 2196958, 2196959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.2	99.6	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A101084
Included Lab Sample IDs: 2196962, 2196963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.2	97.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A101088
Included Lab Sample IDs: 2196960, 2196961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	103	103	P/P	90 - 110
Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A101119
Included Lab Sample IDs: 2196960, 2196961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A101158
Included Lab Sample IDs: 2196958, 2196959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.7	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A101158
Included Lab Sample IDs: 2196958, 2196959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A101190
Included Lab Sample IDs: 2196960, 2196961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.5	96.9	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2011
Run ID: A101194
Included Lab Sample IDs: 2196960, 2196961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A101242
Included Lab Sample IDs: 2196960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.6	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A101257
Included Lab Sample IDs: 2196961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	95.5	95.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A101281
Included Lab Sample IDs: 2196958, 2196959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	101	P/P	90 - 110
Sulfate	98.7	99.5	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		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					2.17	
EPA 300.0 Rev. 2.1	Chloride	102	103	100		0.734	
	Sulfate	99.2	98.1	97.8		0.446	
EPA 350.1 Rev. 2.0	Ammonia-N	105	99.2	98.7			0.466
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	106	105			0.984
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	98.3	98.8			0.494
EPA 365.1 Rev. 2.0	Total-P	106	107	103			3.18
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.8	99.8	99.9			0.100
SM 2120 B-2011	Color (true)	97.8				1.33	
SM 2320 B-2011	Total Alkalinity	100				2.21	
SM 2540 C-2011	TDS					0.803	
SM 4500 F-C-2011	Fluoride	97.8	94.0	95.0			0.948
SM 5310 B-2011	Organic Carbon	94.8	98.8	102			2.20

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2196958, 2196959
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2196958, 2196959
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2196958, 2196959
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2196960, 2196961
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2196960, 2196961
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2196960, 2196961
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2196960, 2196961
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2196962, 2196963
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2196958, 2196959
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2196958, 2196959
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2196958, 2196959
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2196958, 2196959
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2196958, 2196959
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2196960, 2196961

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	09/18/2020			09/18/2020 15:12	Yen Ta	2196958, 2196959
EPA 300.0 Rev. 2.1	09/18/2020			09/29/2020 17:15	Elliott Rodriguez	2196958
	09/18/2020			09/29/2020 17:28	Elliott Rodriguez	2196959
EPA 350.1 Rev. 2.0	09/18/2020			09/20/2020 10:02	Ping Hua	2196961
	09/18/2020			09/20/2020 10:20	Ping Hua	2196960
EPA 351.2 Rev. 2.0	09/18/2020	09/22/2020 11:40	David Boose	09/24/2020 19:25	Elliott Rodriguez	2196960
	09/18/2020	09/22/2020 11:40	David Boose	09/24/2020 19:27	Elliott Rodriguez	2196961
EPA 353.2 Rev. 2.0	09/18/2020			09/22/2020 09:00	Beverly Y. Sanders	2196960
	09/18/2020			09/22/2020 09:01	Beverly Y. Sanders	2196961
EPA 365.1 Rev. 2.0	09/18/2020	09/25/2020 12:17	Yen Ta	09/28/2020 15:27	Benjamin T. Nordmann	2196960
	09/18/2020	09/25/2020 12:17	Yen Ta	09/29/2020 14:13	Lipi Saha	2196961
EPA 365.1 Rev. 2.0 dissolved	09/18/2020			09/18/2020 16:07	Julia Storbeck	2196963
	09/18/2020			09/18/2020 16:10	Julia Storbeck	2196962
SM 2120 B-2011	09/18/2020			09/18/2020 16:04	Benjamin T. Nordmann	2196959
	09/18/2020			09/18/2020 16:06	Benjamin T. Nordmann	2196958
SM 2320 B-2011	09/18/2020			09/22/2020 12:31	Dale L. Simmons	2196958
	09/18/2020			09/22/2020 12:43	Dale L. Simmons	2196959
SM 2540 C-2011	09/18/2020			09/23/2020 14:41	Yijie Li	2196958, 2196959
SM 2540 D-2011	09/18/2020			09/23/2020 14:41	Yijie Li	2196958, 2196959
SM 4500 F-C-2011	09/18/2020			09/22/2020 12:31	Dale L. Simmons	2196958
	09/18/2020			09/22/2020 12:43	Dale L. Simmons	2196959
SM 5310 B-2011	09/18/2020			09/24/2020 19:46	Madeline Gruver	2196960
	09/18/2020			09/24/2020 19:58	Madeline Gruver	2196961