

Chemical Analysis Report

NE-DIST-2022-02-16-01

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

Event Description: **Palm Valley Boat 2022**

Request ID: **RQ-2022-02-14-13**

Customer: **NE-DIST**

Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
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Certified by: Colin Wright, Program Administrator

Date Certified: 10-MAR-2022 10:12

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: Marshall Creek 0.5 miles above mouth

Collection Date/Time: 02/15/2022 10:25

Field ID: G5NE0595

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306195	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P409937	
	SM 2320 B-2011	Total Alkalinity	113		mg CaCO3/L	P410036	
	SM 2540 D-2011	TSS	14		mg/L	P410260	
	SM 4500 F-C-2011	Fluoride	0.89		mg F/L	P410039	
2306199	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P410405	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P409966	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410266	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P409995	
	SM 5310 B-2011	Organic Carbon	5.9		mg C/L	P410698	
2306203	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P409933	

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: Capo Creek 300M Above mouth

Collection Date/Time: 02/15/2022 10:55

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306196	EPA 180.1 Rev. 2.0	Turbidity	6.1		NTU	P409937	
	SM 2320 B-2011	Total Alkalinity	113		mg CaCO3/L	P410036	
	SM 2540 D-2011	TSS	15		mg/L	P410260	
	SM 4500 F-C-2011	Fluoride	0.95		mg F/L	P410039	
2306200	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P410405	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P409966	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410266	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P409995	
	SM 5310 B-2011	Organic Carbon	5.2		mg C/L	P410698	
2306204	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.024		mg P/L	P409933	

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: Deep Creek 1st NE Bend from mouth

Collection Date/Time: 02/15/2022 11:45

Field ID: 27010069

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306197	EPA 180.1 Rev. 2.0	Turbidity	4.9		NTU	P409937	
	SM 2320 B-2011	Total Alkalinity	113		mg CaCO3/L	P410036	
	SM 2540 D-2011	TSS	17		mg/L	P410260	
	SM 4500 F-C-2011	Fluoride	0.85		mg F/L	P410039	
2306201	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P410405	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.51		mg N/L	P409966	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410266	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P409995	
	SM 5310 B-2011	Organic Carbon	6.9		mg C/L	P410698	
2306205	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P409933	

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: Deep Creek 270m above ICW

Collection Date/Time: 02/15/2022 12:00

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306198	EPA 180.1 Rev. 2.0	Turbidity	5.2		NTU	P409937	
	SM 2320 B-2011	Total Alkalinity	112		mg CaCO3/L	P410036	
	SM 2540 D-2011	TSS	16		mg/L	P410260	
	SM 4500 F-C-2011	Fluoride	0.86		mg F/L	P410039	
2306202	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P410405	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P409966	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410267	
	EPA 365.1 Rev. 2.0	Total-P	0.054		mg P/L	P409995	
	SM 5310 B-2011	Organic Carbon	6.9		mg C/L	P410698	
2306206	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.028		mg P/L	P409933	

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: P409937

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410405

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409966

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410266

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410267

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409995

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409933

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

Reference Method: SM 2320 B-2011
Batch ID: P410036

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

Reference Method: SM 2540 D-2011
Batch ID: P410260

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P410039

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410698

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409937

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410405

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410266

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410267

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: P409995

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: P409933

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

Reference Method: SM 2320 B-2011
Batch ID: P410036

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.8		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P410039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.8		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P410698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410405

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306199	Ammonia-N	97.4	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306066	Kjeldahl Nitrogen	99.4	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306002	NO2NO3-N	99.1	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306202	NO2NO3-N	103	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306200	Total-P	96.2	96.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409933

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306203	O-Phosphate-P	98.9	99.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P410039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305619	Fluoride	97.6	98.3	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306635	Organic Carbon	91.5	96.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306101	Turbidity	4.23	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306199	Ammonia-N	0.332	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306066	Kjeldahl Nitrogen	0.221	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306002	NO2NO3-N	0.980	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306202	NO2NO3-N	5.20	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306200	Total-P	0.123	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306203	O-Phosphate-P	0.779	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P410036

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305619	Total Alkalinity	0.976	Sample	P	0 - 5.2

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P410039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305619	Fluoride	0.476	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306635	Organic Carbon	4.34	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110445

Included Lab Sample IDs: 2306203, 2306204, 2306205, 2306206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110446

Included Lab Sample IDs: 2306195, 2306196, 2306197, 2306198

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

Reference Method: SM 2320 B-2011

Run ID: A110482

Included Lab Sample IDs: 2306195, 2306196, 2306197, 2306198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.4	96.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110482

Included Lab Sample IDs: 2306195, 2306196, 2306197, 2306198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.0	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110537

Included Lab Sample IDs: 2306199, 2306200, 2306201, 2306202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.1	97.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110575

Included Lab Sample IDs: 2306199, 2306200, 2306201, 2306202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	100	P/P	90 - 110
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110618

Included Lab Sample IDs: 2306199, 2306200, 2306201, 2306202

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110644

Included Lab Sample IDs: 2306199, 2306200, 2306201, 2306202

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

Quality Assurance Report

Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A110771

Included Lab Sample IDs: 2306199, 2306200, 2306201, 2306202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	97.2	P/P	90 - 110
Organic Carbon	97.6	96.2	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	97.6				4.23	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	97.4	97.8			0.332
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.7	99.4	99.1			0.221
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	99.1	100			0.980
	NO ₂ NO ₃ -N	99.5	103	108			5.20
EPA 365.1 Rev. 2.0	Total-P	104	96.2	96.1			0.123
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.6	98.9	99.9			0.779
SM 2320 B-2011	Total Alkalinity	98.8				0.976	
SM 4500 F-C-2011	Fluoride	96.8	97.6	98.3			0.476
SM 5310 B-2011	Organic Carbon	96.2	91.5	96.2			4.34

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2306195, 2306196, 2306197, 2306198
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2306199, 2306200, 2306201, 2306202
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2306199, 2306200, 2306201, 2306202
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2306199, 2306200, 2306201, 2306202
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2306199, 2306200, 2306201, 2306202
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2306203, 2306204, 2306205, 2306206
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2306195, 2306196, 2306197, 2306198
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2306195, 2306196, 2306197, 2306198
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2306195, 2306196, 2306197, 2306198
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2306199, 2306200, 2306201, 2306202

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	02/16/2022			02/16/2022 15:38	Khloe J Berg	2306195
	02/16/2022			02/16/2022 15:40	Khloe J Berg	2306196
	02/16/2022			02/16/2022 15:41	Khloe J Berg	2306197
	02/16/2022			02/16/2022 15:43	Khloe J Berg	2306198
EPA 350.1 Rev. 2.0	02/16/2022			02/25/2022 13:36	Ping Hua	2306199
	02/16/2022			02/25/2022 13:48	Ping Hua	2306200
	02/16/2022			02/25/2022 13:50	Ping Hua	2306201
	02/16/2022			02/25/2022 13:51	Ping Hua	2306202
EPA 351.2 Rev. 2.0	02/16/2022	02/18/2022 10:12	Samantha L Bates	02/22/2022 11:56	Alexandra J Mattheus	2306199
	02/16/2022	02/18/2022 10:12	Samantha L Bates	02/22/2022 11:58	Alexandra J Mattheus	2306200
	02/16/2022	02/18/2022 10:12	Samantha L Bates	02/22/2022 11:59	Alexandra J Mattheus	2306201
	02/16/2022	02/18/2022 10:12	Samantha L Bates	02/22/2022 12:01	Alexandra J Mattheus	2306202
EPA 353.2 Rev. 2.0	02/16/2022			02/23/2022 15:57	Nathaniel J Jones	2306199
	02/16/2022			02/23/2022 15:58	Nathaniel J Jones	2306200
	02/16/2022			02/23/2022 16:00	Nathaniel J Jones	2306201
	02/16/2022			02/23/2022 16:07	Nathaniel J Jones	2306202
EPA 365.1 Rev. 2.0	02/16/2022	02/18/2022 15:35	Simonne.V. Calhoun	02/23/2022 12:43	Sarah A Nixon	2306200
	02/16/2022	02/18/2022 15:35	Simonne.V. Calhoun	02/23/2022 12:54	Sarah A Nixon	2306199
	02/16/2022	02/18/2022 15:35	Simonne.V. Calhoun	02/23/2022 12:55	Sarah A Nixon	2306201
	02/16/2022	02/18/2022 15:35	Simonne.V. Calhoun	02/23/2022 12:56	Sarah A Nixon	2306202
EPA 365.1 Rev. 2.0 dissolved	02/16/2022			02/16/2022 15:29	James L Waggeberby	2306203
	02/16/2022			02/16/2022 15:34	James L Waggeberby	2306204
	02/16/2022			02/16/2022 15:35	James L Waggeberby	2306205
	02/16/2022			02/16/2022 15:36	James L Waggeberby	2306206
SM 2320 B-2011	02/16/2022			02/18/2022 08:22	Dale L. Simmons	2306195
	02/16/2022			02/18/2022 08:35	Dale L. Simmons	2306196
	02/16/2022			02/18/2022 08:49	Dale L. Simmons	2306197
	02/16/2022			02/18/2022 09:02	Dale L. Simmons	2306198
SM 2540 D-2011	02/16/2022			02/18/2022 15:06	Yijie Li	2306195, 2306196, 2306197, 2306198
SM 4500 F-C-2011	02/16/2022			02/18/2022 05:10	Dale L. Simmons	2306195
	02/16/2022			02/18/2022 05:15	Dale L. Simmons	2306196
	02/16/2022			02/18/2022 05:20	Dale L. Simmons	2306197
	02/16/2022			02/18/2022 05:26	Dale L. Simmons	2306198
SM 5310 B-2011	02/16/2022			03/05/2022 08:03	Touraj Touran	2306199
	02/16/2022			03/05/2022 08:57	Touraj Touran	2306200
	02/16/2022			03/05/2022 10:26	Touraj Touran	2306201
	02/16/2022			03/05/2022 11:28	Touraj Touran	2306202