

Chemical Analysis Report

SO-DIST-2022-02-11-02

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

Event Description: **Caloosa Creeks**
Request ID: **RQ-2022-02-07-59**
Customer: **SO-DIST**
Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Gary Snorek

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 08-MAR-2022 14:41

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored 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: Orange River @BoatRamp

Collection Date/Time: 02/10/2022 12:12

Field ID: G3SD0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305266	DEP SOP: NU-094-1	Color (true)**	24	A	PCU	P409755	
	SM 2320 B-2011	Total Alkalinity	200		mg CaCO3/L	P409896	
	SM 2540 D-2011	TSS	3	I	mg/L	P410193	
	SM 4500 F-C-2011	Fluoride	0.17		mg F/L	P409906	
2305268	SM 5310 B-2011 dissolved	Organic Carbon	8.2		mg C/L	P409975	
2305270	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P410312	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P409823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.028		mg N/L	P410169	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P409832	
	SM 5310 B-2011	Organic Carbon	8.5		mg C/L	P409975	
2305272	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P409749	

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: Telegraph Creek @ USGS

Collection Date/Time: 02/10/2022 15:11

Field ID: G3SD0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305267	DEP SOP: NU-094-1	Color (true)**	100		PCU	P409755	
	SM 2320 B-2011	Total Alkalinity	204		mg CaCO3/L	P409896	
	SM 2540 D-2011	TSS	3	IA	mg/L	P410193	
	SM 4500 F-C-2011	Fluoride	0.13		mg F/L	P409906	
2305269	SM 5310 B-2011 dissolved	Organic Carbon	19		mg C/L	P409975	
2305271	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P410312	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P409824	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.054		mg N/L	P410169	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P409833	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P409975	
2305273	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.026		mg P/L	P409749	

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: DEP SOP: NU-094-1
Batch ID: P409755

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410312

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409823

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409824

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410169

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409832

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409833

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409749

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

Reference Method: SM 2320 B-2011
Batch ID: P409896

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P410193

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409906

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P409975

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

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409975

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P409755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410312

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409823

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409824

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	103		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410169

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: P409832

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409833

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409749

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

Reference Method: SM 2320 B-2011
Batch ID: P409896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P409906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P409975

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409975

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305279	Ammonia-N	98.2	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409823

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305190	Kjeldahl Nitrogen	98.6	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409824

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305555	Kjeldahl Nitrogen	93.3	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305270	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305270	Total-P	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409833

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305271	Total-P	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305216	O-Phosphate-P	98.7	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P409906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305329	Fluoride	99.5	98.9	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P409975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302623	Organic Carbon	97.6	94.9	P/P	85 - 115

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302623	Organic Carbon	97.6	94.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305266	Color (true)	0.266	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305279	Ammonia-N	1.37	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305190	Kjeldahl Nitrogen	1.67	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409824

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305555	Kjeldahl Nitrogen	4.38	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305270	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305270	Total-P	1.72	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305271	Total-P	0.692	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305216	O-Phosphate-P	1.61	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P409896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305329	Total Alkalinity	2.53	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P409906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305329	Fluoride	0.500	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P409975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302623	Organic Carbon	2.02	Spike	P	0 - 20

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302623	Organic Carbon	2.02	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: A110364

Included Lab Sample IDs: 2305272, 2305273

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	99.5	P/P	90 - 110
O-Phosphate-P	99.5	98.7	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A110369

Included Lab Sample IDs: 2305266, 2305267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	85 - 115

Reference Method: SM 2320 B-2011

Run ID: A110433

Included Lab Sample IDs: 2305266, 2305267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.8	91.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110433

Included Lab Sample IDs: 2305266, 2305267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.0	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110463

Included Lab Sample IDs: 2305270, 2305271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.5	93.4	P/P	90 - 110

Reference Method: SM 5310 B-2011 dissolved

Run ID: A110463

Included Lab Sample IDs: 2305268, 2305269

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.5	93.4	P/P	90 - 110
Organic Carbon	95.4	93.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110467

Included Lab Sample IDs: 2305270, 2305271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110521

Included Lab Sample IDs: 2305270

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110521

Included Lab Sample IDs: 2305270

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110529

Included Lab Sample IDs: 2305271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.6	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110534

Included Lab Sample IDs: 2305270, 2305271

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110602

Included Lab Sample IDs: 2305270, 2305271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	98.2	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	
DEP SOP: NU-094-1	Color (true)	98.2				0.266	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	98.2	100			1.37
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.7	98.6	96.2			1.67
	Kjeldahl Nitrogen	103	93.3	99.5			4.38
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	100	100			0.0
EPA 365.1 Rev. 2.0	Total-P	100	105	103			1.72
	Total-P	102	103	102			0.692
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.9	98.7	100			1.61
SM 2320 B-2011	Total Alkalinity	97.0				2.53	
SM 4500 F-C-2011	Fluoride	98.9	99.5	98.9			0.500
SM 5310 B-2011	Organic Carbon	96.4	97.6	94.9			2.02
SM 5310 B-2011 dissolved	Organic Carbon	96.4	97.6	94.9			2.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2305266, 2305267
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2305270, 2305271
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2305270, 2305271
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2305270, 2305271
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2305270, 2305271
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2305272, 2305273
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2305266, 2305267
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2305266, 2305267
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2305266, 2305267
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2305270, 2305271
SM 5310 B-2011 dissolved	Dissolved Nonpurgeable Organic Carbon in filtered, aqueous matrices	2305268, 2305269

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/11/2022			02/11/2022 16:05	Anna M. Plaviak	2305266, 2305267
EPA 350.1 Rev. 2.0	02/11/2022			02/24/2022 12:07	Ping Hua	2305270
	02/11/2022			02/24/2022 12:09	Ping Hua	2305271
EPA 351.2 Rev. 2.0	02/11/2022	02/16/2022 13:48	Samantha L Bates	02/17/2022 12:05	Alexandra J Mattheus	2305270
	02/11/2022	02/16/2022 13:48	Samantha L Bates	02/17/2022 12:16	Alexandra J Mattheus	2305271
EPA 353.2 Rev. 2.0	02/11/2022			02/22/2022 10:26	Beverly Y. Sanders	2305270
	02/11/2022			02/22/2022 10:33	Beverly Y. Sanders	2305271
EPA 365.1 Rev. 2.0	02/11/2022	02/16/2022 14:20	Simonne.V. Calhoun	02/17/2022 15:19	Shengyu Ding	2305271
	02/11/2022	02/16/2022 14:20	Simonne.V. Calhoun	02/21/2022 14:44	Sarah A Nixon	2305270
EPA 365.1 Rev. 2.0 dissolved	02/11/2022			02/11/2022 14:37	James L Waggeberby	2305272
	02/11/2022			02/11/2022 14:42	James L Waggeberby	2305273
SM 2320 B-2011	02/11/2022			02/15/2022 23:13	Dale L. Simmons	2305266
	02/11/2022			02/15/2022 23:27	Dale L. Simmons	2305267
SM 2540 D-2011	02/11/2022			02/16/2022 15:36	Yijie Li	2305266, 2305267
SM 4500 F-C-2011	02/11/2022			02/15/2022 23:13	Dale L. Simmons	2305266
	02/11/2022			02/15/2022 23:27	Dale L. Simmons	2305267
SM 5310 B-2011	02/11/2022			02/16/2022 08:25	Nathaniel J Jones	2305270
	02/11/2022			02/16/2022 08:43	Nathaniel J Jones	2305271
SM 5310 B-2011 dissolved	02/11/2022			02/16/2022 06:14	Nathaniel J Jones	2305268
	02/11/2022			02/16/2022 07:03	Nathaniel J Jones	2305269