

Chemical Analysis Report

CEN-DIST-2022-03-08-01

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

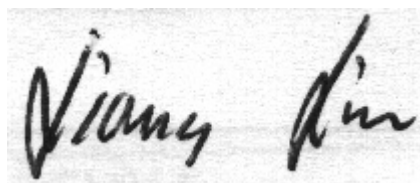
Event Description: **Fox Lake + Blank**
Request ID: **RQ-2022-03-07-21**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 28-MAR-2022 13:58

A handwritten signature in black ink, appearing to read "Liang Lin", is shown 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: Fox Lake near Center

Collection Date/Time: 03/07/2022 10:19

Field ID: G3CE0041

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310729	DEP SOP: NU-094-1	Color (true)**	210		PCU	P410821	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P410817	
	EPA 300.0 Rev. 2.1	Chloride	200		mg Cl/L	P411050	
		Sulfate	25		mg SO4/L	P411054	
	SM 2320 B-2011	Total Alkalinity	38		mg CaCO3/L	P410981	
	SM 2540 C-2011	TDS	441		mg/L	P411341	
	SM 2540 D-2011	TSS	5	I	mg/L	P411345	
2310730	SM 4500 F-C-2011	Fluoride	0.047	I	mg F/L	P410984	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P410877	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P410998	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P411044	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P411073	
2310731	SM 5310 B-2011	Organic Carbon	26		mg C/L	P411058	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P410808	

Ref. Method and Comment:

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

SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 03/07/2022 10:39

Field ID: FB_03072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310732	DEP SOP: NU-094-1	Color (true)**	2.5	U	PCU	P410821	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P410817	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P411050	
		Sulfate	0.20	U	mg SO4/L	P411054	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P410981	
	SM 2540 C-2011	TDS	15	U	mg/L	P411341	
	SM 2540 D-2011	TSS	2	U	mg/L	P411345	
2310733	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410984	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P410877	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P410998	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P411044	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P411073	
2310734	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P411058	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P410808	

Ref. Method and Comment:

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

SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P410821

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410817

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411050

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411054

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410877

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410998

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411044

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411073

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410808

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P410981

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

Reference Method: SM 2540 C-2011
Batch ID: P411341

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P411345

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410984

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P411058

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: P410821

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410817

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411050

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411054

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410877

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411044

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: P411073

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: P410808

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P410981

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: P410984

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P411058

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310648	Chloride	95.8		P	90 - 110
2310971	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310648	Sulfate	98.2		P	90 - 110
2310971	Sulfate	99.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310662	Ammonia-N	94.2	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310527	Kjeldahl Nitrogen	101	93.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411044

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310203	NO2NO3-N	97.6	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310663	O-Phosphate-P	97.8	99.1	P/P	90 - 110

Reference Method: SM 5310 B-2011
Batch ID: P411058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310730	Organic Carbon	102		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P410821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310739	Color (true)	0.807	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410817

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310648	Turbidity	13.9	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310648	Chloride	0.247	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310648	Sulfate	0.252	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310662	Ammonia-N	2.56	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310527	Kjeldahl Nitrogen	6.79	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310203	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310740	Total-P	1.21	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410808

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310663	O-Phosphate-P	1.32	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P410981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310485	Total Alkalinity	4.61	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P411341

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310260	TDS	4.65	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P410984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310485	Fluoride	0.483	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P411058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310730	Organic Carbon	0.438	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: A110813

Included Lab Sample IDs: 2310731, 2310734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.2	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110816

Included Lab Sample IDs: 2310729, 2310732

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

Reference Method: DEP SOP: NU-094-1

Run ID: A110818

Included Lab Sample IDs: 2310729, 2310732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	85 - 115
Color (true)	99.4	101	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110831

Included Lab Sample IDs: 2310729, 2310732

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: A110840

Included Lab Sample IDs: 2310730, 2310733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	95.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110877

Included Lab Sample IDs: 2310729, 2310732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.9	94.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110877

Included Lab Sample IDs: 2310729, 2310732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110916

Included Lab Sample IDs: 2310730, 2310733

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110916

Included Lab Sample IDs: 2310730, 2310733

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

Reference Method: SM 5310 B-2011

Run ID: A110920

Included Lab Sample IDs: 2310730, 2310733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	97.6	P/P	90 - 110
Organic Carbon	99.5	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110987

Included Lab Sample IDs: 2310730

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111001

Included Lab Sample IDs: 2310733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111045

Included Lab Sample IDs: 2310730, 2310733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.7	97.1	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	MS
DEP SOP: NU-094-1	Color (true)	100			0.807	
EPA 180.1 Rev. 2.0	Turbidity	97.7			13.9	
EPA 300.0 Rev. 2.1	Chloride	102	95.8	103	0.247	
	Sulfate	102	98.2	99.8	0.252	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	94.2	96.8		2.56
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	101	93.6		6.79
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	97.6	97.6		0.0
EPA 365.1 Rev. 2.0	Total-P	102				1.21
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.8	99.1		1.32
SM 2320 B-2011	Total Alkalinity	98.8			4.61	
SM 2540 C-2011	TDS				4.65	
SM 4500 F-C-2011	Fluoride	99.2				0.483
SM 5310 B-2011	Organic Carbon	97.8	102			0.438

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2310729, 2310732
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2310729, 2310732
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2310729, 2310732
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2310729, 2310732
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2310730, 2310733
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2310730, 2310733
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2310730, 2310733
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2310730, 2310733
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2310731, 2310734
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2310729, 2310732
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2310729, 2310732
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2310729, 2310732
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2310729, 2310732
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2310730, 2310733

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	03/08/2022			03/08/2022 16:23	Anna M. Plaviak	2310732
	03/08/2022			03/08/2022 17:08	Anna M. Plaviak	2310729
EPA 180.1 Rev. 2.0	03/08/2022			03/08/2022 14:37	Khloe J Berg	2310729
	03/08/2022			03/08/2022 14:38	Khloe J Berg	2310732
EPA 300.0 Rev. 2.1	03/08/2022			03/11/2022 23:36	Anna M. Plaviak	2310729
	03/08/2022			03/11/2022 23:49	Anna M. Plaviak	2310732
EPA 350.1 Rev. 2.0	03/08/2022			03/09/2022 12:01	Judith K. Clark	2310730
	03/08/2022			03/09/2022 12:09	Judith K. Clark	2310733
EPA 351.2 Rev. 2.0	03/08/2022	03/14/2022 15:45	Samantha L Bates	03/18/2022 12:12	Alexandra J Mattheus	2310730
	03/08/2022	03/14/2022 15:45	Samantha L Bates	03/18/2022 12:15	Alexandra J Mattheus	2310733
EPA 353.2 Rev. 2.0	03/08/2022			03/14/2022 10:06	Beverly Y. Sanders	2310730
	03/08/2022			03/14/2022 10:07	Beverly Y. Sanders	2310733
EPA 365.1 Rev. 2.0	03/08/2022	03/15/2022 14:55	Simonne.V. Calhoun	03/16/2022 18:33	Sarah A Nixon	2310730
	03/08/2022	03/15/2022 14:55	Simonne.V. Calhoun	03/17/2022 12:04	James L Waggeberby	2310733
EPA 365.1 Rev. 2.0 dissolved	03/08/2022			03/08/2022 14:39	James L Waggeberby	2310731
	03/08/2022			03/08/2022 14:40	James L Waggeberby	2310734
SM 2320 B-2011	03/08/2022			03/10/2022 02:38	Dale L. Simmons	2310729
	03/08/2022			03/10/2022 02:46	Dale L. Simmons	2310732
SM 2540 C-2011	03/08/2022			03/09/2022 14:26	Yijie Li	2310729, 2310732
SM 2540 D-2011	03/08/2022			03/09/2022 14:26	Yijie Li	2310729, 2310732
SM 4500 F-C-2011	03/08/2022			03/10/2022 02:38	Dale L. Simmons	2310729
	03/08/2022			03/10/2022 02:46	Dale L. Simmons	2310732
SM 5310 B-2011	03/08/2022			03/11/2022 00:28	Khloe J Berg	2310730
	03/08/2022			03/11/2022 07:44	Khloe J Berg	2310733