

Chemical Analysis Report

NE-DIST-2023-07-18-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Palm Valley Boat 2023**
Request ID: **RQ-2023-07-24-08**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 02-AUG-2023 08:40

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: STAUGUSTINE INLET SE OF VILANO BTRMP Collection Date/Time: 07/17/2023 10:00

Field ID: G5NE0587

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2424445	DEP SOP: NU-094-1	Color (true)	7.5	U	PCU	P432649	
	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P432655	
	EPA 300.0 Rev. 2.1	Chloride	2.1E+04		mg Cl/L	P432732	
		Sulfate	2.9E+03		mg SO4/L	P432734	
	SM 2320 B-2011	Total Alkalinity	117		mg CaCO3/L	P432745	
	SM 2540 C-2015	TDS	3.92E+04		mg/L	P433231	
	SM 2540 D-2015	TSS	8	I	mg/L	P433086	
	SM 4500-F- C-2011	Fluoride	1.4		mg F/L	P432748	
2424446	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P432774	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.18	I	mg N/L	P432906	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432763	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P432735	
	SM 5310 B-2011	Organic Carbon	2.4	I	mg C/L	P432911	

Ref. Method and Comment:

DEP SOP: NU-094-1: The MDL was elevated because of sample matrix interference.

SM 2540 D-2015: 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: 07/17/2023 11:30

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2424447	DEP SOP: NU-094-1	Color (true)	41		PCU	P432649	
	EPA 180.1 Rev. 2.0	Turbidity	5.9		NTU	P432655	
	EPA 300.0 Rev. 2.1	Chloride	1.3E+04		mg Cl/L	P432732	
		Sulfate	1.9E+03		mg SO4/L	P432734	
	SM 2320 B-2011	Total Alkalinity	112		mg CaCO3/L	P432745	
	SM 2540 C-2015	TDS	2.38E+04		mg/L	P433231	
	SM 2540 D-2015	TSS	10	I	mg/L	P433086	
	SM 4500-F- C-2011	Fluoride	1.0		mg F/L	P432748	
2424448	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P432774	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.72		mg N/L	P432906	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P432763	
	EPA 365.1 Rev. 2.0	Total-P	0.074		mg P/L	P432735	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P432911	

Ref. Method and Comment:

SM 2540 D-2015: 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: 07/17/2023 11:50

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2424443	DEP SOP: NU-094-1	Color (true)	40		PCU	P432649	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P432655	
	EPA 300.0 Rev. 2.1	Chloride	1.4E+04		mg Cl/L	P432732	
		Sulfate	2.0E+03		mg SO4/L	P432734	
	SM 2320 B-2011	Total Alkalinity	113	A	mg CaCO3/L	P432745	
	SM 2540 C-2015	TDS	2.52E+04		mg/L	P433231	
	SM 2540 D-2015	TSS	20		mg/L	P433086	
	SM 4500-F- C-2011	Fluoride	1.0		mg F/L	P432748	
2424444	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P432774	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P432906	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P432763	
	EPA 365.1 Rev. 2.0	Total-P	0.083		mg P/L	P432735	
	SM 5310 B-2011	Organic Carbon	9.6		mg C/L	P432911	

Ref. Method and Comment:

SM 2540 D-2015: 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: P432649

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432655

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432732

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432734

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432774

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432906

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432763

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432735

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

Reference Method: SM 2320 B-2011
Batch ID: P432745

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P433231

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P433086

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P432748

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432911

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: P432649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432655

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432732

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432734

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432906

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432763

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432735

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

Reference Method: SM 2320 B-2011
Batch ID: P432745

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.6		P	92 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P433231

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

Reference Method: SM 2540 D-2015
Batch ID: P433086

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	98.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P432748

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	104		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432732

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424386	Chloride	103		P	90 - 110
2424505	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424386	Sulfate	98.6		P	90 - 110
2424505	Sulfate	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424446	Ammonia-N	106	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424448	Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432763

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424402	NO2NO3-N	104	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424446	Total-P	91.8	92.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P432748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424443	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425432	Organic Carbon	94.6	94.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424414	Color (true)	3.24	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424316	Turbidity	2.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424386	Chloride	0.685	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424386	Sulfate	2.07	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424446	Ammonia-N	0.509	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424448	Kjeldahl Nitrogen	1.44	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424402	NO2NO3-N	0.535	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424446	Total-P	0.762	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P432745

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424443	Total Alkalinity	0.705	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P433231

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424591	TDS	6.28	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424443	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425432	Organic Carbon	0.0834	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A120464

Included Lab Sample IDs: 2424443, 2424445, 2424447

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	90 - 110
Color (true)	103	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120467

Included Lab Sample IDs: 2424443, 2424445, 2424447

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120479

Included Lab Sample IDs: 2424443, 2424445, 2424447

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	100	P/P	90 - 110
Sulfate	100	99.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A120511

Included Lab Sample IDs: 2424443, 2424445, 2424447

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.2	96.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120511

Included Lab Sample IDs: 2424443, 2424445, 2424447

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	107	P/P	90 - 110
Fluoride	107	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120513

Included Lab Sample IDs: 2424444, 2424446, 2424448

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: A120518

Included Lab Sample IDs: 2424444, 2424446, 2424448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	97.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A120583

Included Lab Sample IDs: 2424444, 2424446, 2424448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.3	95.6	P/P	90 - 110
Organic Carbon	95.7	95.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120585

Included Lab Sample IDs: 2424444, 2424446, 2424448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.0	P/P	90 - 110
Total-P	98.8	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120625

Included Lab Sample IDs: 2424444, 2424446, 2424448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	105	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
DEP SOP: NU-094-1	Color (true)	102				3.24	
EPA 180.1 Rev. 2.0	Turbidity	99.2				2.07	
EPA 300.0 Rev. 2.1	Chloride	101	103	102		0.685	
	Sulfate	98.3	98.6	96.9		2.07	
EPA 350.1 Rev. 2.0	Ammonia-N	93.6	106	106			0.509
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1	102	101			1.44
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	102			0.535
EPA 365.1 Rev. 2.0	Total-P	101	91.8	92.6			0.762
SM 2320 B-2011	Total Alkalinity	96.6				0.705	
SM 2540 C-2015	TDS	98.0				6.28	
SM 2540 D-2015	TSS	98.5					
SM 4500-F- C-2011	Fluoride	104	103	103			0.0
SM 5310 B-2011	Organic Carbon	95.8	94.6	94.5			0.0834

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2424443, 2424445, 2424447
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2424443, 2424445, 2424447
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2424443, 2424445, 2424447
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2424443, 2424445, 2424447
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2424444, 2424446, 2424448
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2424444, 2424446, 2424448
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2424444, 2424446, 2424448
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2424444, 2424446, 2424448
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2424443, 2424445, 2424447
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2424443, 2424445, 2424447
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2424443, 2424445, 2424447
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2424443, 2424445, 2424447
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2424444, 2424446, 2424448

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	07/18/2023			07/18/2023 14:34	Chandler E Cox	2424443
	07/18/2023			07/18/2023 14:36	Chandler E Cox	2424447
	07/18/2023			07/18/2023 15:07	Chandler E Cox	2424445
EPA 180.1 Rev. 2.0	07/18/2023			07/18/2023 13:56	Anna M. Plaviak	2424443
	07/18/2023			07/18/2023 13:58	Anna M. Plaviak	2424445
	07/18/2023			07/18/2023 14:00	Anna M. Plaviak	2424447
EPA 300.0 Rev. 2.1	07/18/2023			07/19/2023 21:03	James L Waggeberby	2424443
	07/18/2023			07/19/2023 21:18	James L Waggeberby	2424445
	07/18/2023			07/19/2023 21:33	James L Waggeberby	2424447
EPA 350.1 Rev. 2.0	07/18/2023			07/20/2023 12:49	Ping Hua	2424444
	07/18/2023			07/20/2023 12:51	Ping Hua	2424446
	07/18/2023			07/20/2023 12:52	Ping Hua	2424448
EPA 351.2 Rev. 2.0	07/18/2023	07/24/2023 16:09	Dana G. Hughes	07/25/2023 15:13	Samantha L Bates	2424444
	07/18/2023	07/24/2023 16:09	Dana G. Hughes	07/25/2023 15:15	Samantha L Bates	2424446
	07/18/2023	07/24/2023 16:09	Dana G. Hughes	07/25/2023 15:16	Samantha L Bates	2424448
EPA 353.2 Rev. 2.0	07/18/2023			07/20/2023 10:39	Beverly Y. Sanders	2424444
	07/18/2023			07/20/2023 10:40	Beverly Y. Sanders	2424446
	07/18/2023			07/20/2023 10:41	Beverly Y. Sanders	2424448
EPA 365.1 Rev. 2.0	07/18/2023	07/20/2023 14:21	Adam P Silver	07/24/2023 11:40	Simonne.V. Calhoun	2424446
	07/18/2023	07/20/2023 14:21	Adam P Silver	07/24/2023 11:41	Simonne.V. Calhoun	2424444
	07/18/2023	07/20/2023 14:21	Adam P Silver	07/24/2023 11:48	Simonne.V. Calhoun	2424448
SM 2320 B-2011	07/18/2023			07/20/2023 06:22	Dale L. Simmons	2424443
	07/18/2023			07/20/2023 07:00	Dale L. Simmons	2424445
	07/18/2023			07/20/2023 07:14	Dale L. Simmons	2424447
SM 2540 C-2015	07/18/2023			07/21/2023 17:02	Yijie Li	2424443, 2424445, 2424447
SM 2540 D-2015	07/18/2023			07/21/2023 17:02	Yijie Li	2424443, 2424445, 2424447
SM 4500-F- C-2011	07/18/2023			07/20/2023 04:45	Dale L. Simmons	2424443
	07/18/2023			07/20/2023 05:51	Dale L. Simmons	2424445
	07/18/2023			07/20/2023 05:57	Dale L. Simmons	2424447
SM 5310 B-2011	07/18/2023			07/22/2023 01:04	Elise M. Gillis	2424444
	07/18/2023			07/22/2023 01:50	Elise M. Gillis	2424446
	07/18/2023			07/22/2023 02:03	Elise M. Gillis	2424448