

Chemical Analysis Report

NE-DIST-2023-12-01-01

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

Event Description: **Palm Valley Boat 2023**
Request ID: **RQ-2023-11-13-21**
Customer: **NE-DIST**
Project ID: **SMP**

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Date Certified: 15-DEC-2023 10:52



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: DEEP CREEK 270M ABOVE ICW

Collection Date/Time: 11/30/2023 11:40

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454067	DEP SOP: NU-094-1	Color (true)	25		PCU	P438428	
	EPA 180.1 Rev. 2.0	Turbidity	8.8		NTU	P438423	
	EPA 300.0 Rev. 2.1	Chloride	1.4E+04		mg Cl/L	P438810	
		Sulfate	2.0E+03		mg SO4/L	P438814	
	SM 2320 B-2011	Total Alkalinity	107		mg CaCO3/L	P438549	
	SM 2540 C-2015	TDS	2.52E+04		mg/L	P438848	
	SM 2540 D-2015	TSS	17	A	mg/L	P438776	
	SM 4500-F- C-2011	Fluoride	0.98		mg F/L	P438552	
2454068	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P438571	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.52		mg N/L	P438466	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P438599	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P438558	
	SM 5310 B-2011	Organic Carbon	7.0		mg C/L	P438533	

Sample Location: CAPO CREEK 300M ABOVE MOUTH

Collection Date/Time: 11/30/2023 12:20

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454063	DEP SOP: NU-094-1	Color (true)	19		PCU	P438427	
	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P438423	
	EPA 300.0 Rev. 2.1	Chloride	1.5E+04		mg Cl/L	P438810	
		Sulfate	2.0E+03		mg SO4/L	P438814	
	SM 2320 B-2011	Total Alkalinity	108		mg CaCO3/L	P438549	
	SM 2540 C-2015	TDS	2.66E+04		mg/L	P438848	
	SM 2540 D-2015	TSS	6	I	mg/L	P438776	
	SM 4500-F- C-2011	Fluoride	1.0		mg F/L	P438552	
2454064	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P438571	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P438466	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P438599	
	EPA 365.1 Rev. 2.0	Total-P	0.045		mg P/L	P438558	
	SM 5310 B-2011	Organic Carbon	6.6		mg C/L	P438533	

Sample Location: STAUGUSTINE INLET SE OF VILANO BTRMP Collection Date/Time: 11/30/2023 13:00

Field ID: G5NE0587

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454065	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P438428	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P438423	
	EPA 300.0 Rev. 2.1	Chloride	1.9E+04		mg Cl/L	P438810	
		Sulfate	2.7E+03		mg SO4/L	P438814	
	SM 2320 B-2011	Total Alkalinity	112		mg CaCO3/L	P438549	
	SM 2540 C-2015	TDS	3.44E+04		mg/L	P438848	
	SM 2540 D-2015	TSS	6	I	mg/L	P438776	
	SM 4500-F- C-2011	Fluoride	1.3		mg F/L	P438552	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P438571	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P438466	
2454066	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P438599	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P438558	
	SM 5310 B-2011	Organic Carbon	3.1	I	mg C/L	P438533	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438427

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P438428

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438423

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438810

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438814

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438571

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438466

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438558

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P438549

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

Reference Method: SM 2540 C-2015
Batch ID: P438848

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P438776

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438552

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P438533

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: P438427

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.0		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P438428

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438423

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438810

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438571

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438466

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438558

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P438549

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.7		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P438848

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

Reference Method: SM 2540 D-2015
Batch ID: P438776

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.6		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P438552

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P438533

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438810

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454116	Chloride	101		P	90 - 110
2454156	Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454116	Sulfate	99.4		P	90 - 110
2454156	Sulfate	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453982	Ammonia-N	94.4	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453744	Kjeldahl Nitrogen	102	94.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454064	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454066	Total-P	96.7	98.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P438552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454084	Fluoride	103	99.8	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P438533

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453982	Organic Carbon	94.2	91.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453994	Color (true)	0.141	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P438428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454156	Color (true)	2.77	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438423

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453994	Turbidity	0.631	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454116	Chloride	0.861	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454116	Sulfate	0.0679	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453982	Ammonia-N	1.41	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453744	Kjeldahl Nitrogen	6.98	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454064	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454066	Total-P	1.84	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P438549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454084	Total Alkalinity	0.552	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P438848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454086	TDS	9.07	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P438776

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454067	TSS	9.30	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454084	Fluoride	1.43	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438533

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453982	Organic Carbon	2.62	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: A122985

Included Lab Sample IDs: 2454063, 2454065, 2454067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A122987

Included Lab Sample IDs: 2454063, 2454065, 2454067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.5	P/P	90 - 110
Color (true)	101	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A123034

Included Lab Sample IDs: 2454064, 2454066, 2454068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	99.2	P/P	90 - 110
Organic Carbon	96.6	95.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A123047

Included Lab Sample IDs: 2454063, 2454065, 2454067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.3	98.1	P/P	90 - 110
Total Alkalinity	98.1	96.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123047

Included Lab Sample IDs: 2454063, 2454065, 2454067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A123049

Included Lab Sample IDs: 2454064, 2454066, 2454068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	101	P/P	90 - 110
Kjeldahl Nitrogen	97.6	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123057

Included Lab Sample IDs: 2454064, 2454066, 2454068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	95.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123063

Included Lab Sample IDs: 2454064, 2454066, 2454068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123085

Included Lab Sample IDs: 2454064, 2454066, 2454068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123118

Included Lab Sample IDs: 2454063, 2454065, 2454067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	100	P/P	90 - 110
Sulfate	99.5	98.5	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	MS
DEP SOP: NU-094-1	Color (true)	99.0			0.141	
	Color (true)	101			2.77	
EPA 180.1 Rev. 2.0	Turbidity	103			0.631	
EPA 300.0 Rev. 2.1	Chloride	100	101	98.5	0.861	
	Sulfate	99.4	99.4	95.6	0.0679	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	94.4	96.6		1.41
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.8	102	94.5		6.98
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	100		0.0
EPA 365.1 Rev. 2.0	Total-P	104	96.7	98.5		1.84
SM 2320 B-2011	Total Alkalinity	98.7			0.552	
SM 2540 C-2015	TDS	96.4			9.07	
SM 2540 D-2015	TSS	97.6			9.30	
SM 4500-F- C-2011	Fluoride	102	103	99.8		1.43
SM 5310 B-2011	Organic Carbon	98.1	94.2	91.5		2.62

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2454063, 2454065, 2454067
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2454063, 2454065, 2454067
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2454063, 2454065, 2454067
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2454063, 2454065, 2454067
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2454064, 2454066, 2454068
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2454064, 2454066, 2454068
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2454064, 2454066, 2454068
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2454064, 2454066, 2454068
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2454063, 2454065, 2454067
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2454063, 2454065, 2454067
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2454063, 2454065, 2454067
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2454063, 2454065, 2454067
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2454064, 2454066, 2454068

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	12/01/2023			12/01/2023 14:41	Anna M. Plaviak	2454063
	12/01/2023			12/01/2023 14:45	Anna M. Plaviak	2454065, 2454067
	12/01/2023			12/01/2023 13:39	Anna M. Plaviak	2454063
EPA 180.1 Rev. 2.0	12/01/2023			12/01/2023 13:40	Anna M. Plaviak	2454065
	12/01/2023			12/01/2023 13:41	Anna M. Plaviak	2454067
	12/01/2023			12/08/2023 18:07	Anna M. Plaviak	2454063
EPA 300.0 Rev. 2.1	12/01/2023			12/08/2023 18:22	Anna M. Plaviak	2454065
	12/01/2023			12/08/2023 18:37	Anna M. Plaviak	2454067
	12/01/2023			12/06/2023 13:08	Ping Hua	2454064
EPA 350.1 Rev. 2.0	12/01/2023			12/06/2023 13:09	Ping Hua	2454066
	12/01/2023			12/06/2023 13:11	Ping Hua	2454068
	12/01/2023	12/05/2023 11:47	Simonne.V. Calhoun	12/06/2023 11:21	Samantha L Bates	2454064
EPA 351.2 Rev. 2.0	12/01/2023	12/05/2023 11:47	Simonne.V. Calhoun	12/06/2023 11:23	Samantha L Bates	2454066
	12/01/2023	12/05/2023 11:47	Simonne.V. Calhoun	12/06/2023 11:27	Samantha L Bates	2454068
	12/01/2023			12/06/2023 14:11	Fadila Guebre	2454064
EPA 353.2 Rev. 2.0	12/01/2023			12/06/2023 14:17	Fadila Guebre	2454066
	12/01/2023			12/06/2023 14:18	Fadila Guebre	2454068
	12/01/2023	12/06/2023 13:01	Adam P Silver	12/07/2023 11:47	Chandler E Cox	2454066
EPA 365.1 Rev. 2.0	12/01/2023	12/06/2023 13:01	Adam P Silver	12/07/2023 11:51	Chandler E Cox	2454064
	12/01/2023	12/06/2023 13:01	Adam P Silver	12/07/2023 11:52	Chandler E Cox	2454068
	12/01/2023			12/05/2023 23:57	Chandler E Cox	2454067
SM 2320 B-2011	12/01/2023			12/06/2023 00:46	Chandler E Cox	2454063
	12/01/2023			12/06/2023 00:59	Chandler E Cox	2454065
	12/01/2023			12/05/2023 16:11	Yijie Li	2454063, 2454065, 2454067
SM 2540 C-2015	12/01/2023			12/05/2023 16:11	Yijie Li	2454063, 2454065, 2454067
SM 2540 D-2015	12/01/2023			12/06/2023 03:05	Chandler E Cox	2454067
	12/01/2023			12/06/2023 03:09	Chandler E Cox	2454063
	12/01/2023			12/06/2023 03:18	Chandler E Cox	2454065
SM 4500-F- C-2011	12/01/2023			12/06/2023 00:50	Kenneth H Lee	2454064
	12/01/2023			12/06/2023 01:05	Kenneth H Lee	2454066
	12/01/2023			12/06/2023 01:55	Kenneth H Lee	2454068