

Chemical Analysis Report

NW-DIST-2023-10-04-01

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

Event Description: **Dune Lakes Run**
Request ID: **RQ-2023-10-02-61**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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160 W Government Street
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Certified by: Colin Wright, Program Administrator

Date Certified: 19-OCT-2023 10:02

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: ALLIGATOR LAKE

Collection Date/Time: 10/03/2023 11:40

Field ID: G3NW0219

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442646	DEP SOP: NU-094-1	Color (true)	170		PCU	P435963	
	EPA 180.1 Rev. 2.0	Turbidity	0.75	I	NTU	P435958	
	EPA 300.0 Rev. 2.1	Chloride	3.7E+03		mg Cl/L	P436173	
		Sulfate	510		mg SO4/L	P436176	
	SM 2320 B-2011	Total Alkalinity	32		mg CaCO3/L	P436358	
	SM 2540 C-2015	TDS	6.48E+03		mg/L	P436670	
	SM 2540 D-2015	TSS	2	I	mg/L	P436493	
	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P436360	
2442648	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P436135	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P436273	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436448	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P436117	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P436112	

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: WESTERN LAKE

Collection Date/Time: 10/03/2023 11:00

Field ID: G3NW0007

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442647	DEP SOP: NU-094-1	Color (true)	38	A	PCU	P435963	
	EPA 180.1 Rev. 2.0	Turbidity	0.80	I	NTU	P435958	
	EPA 300.0 Rev. 2.1	Chloride	1.1E+04		mg Cl/L	P436173	
		Sulfate	1.6E+03		mg SO4/L	P436176	
	SM 2320 B-2011	Total Alkalinity	74		mg CaCO3/L	P436358	
	SM 2540 C-2015	TDS	2.00E+04		mg/L	P436671	
	SM 2540 D-2015	TSS	5	IA	mg/L	P436496	
	SM 4500-F- C-2011	Fluoride	0.62		mg F/L	P436360	
2442649	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P436135	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P436273	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P436448	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P436117	
	SM 5310 B-2011	Organic Carbon	5.9		mg C/L	P436473	

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: P435963

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435958

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436135

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436273

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436448

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436117

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

Reference Method: SM 2320 B-2011
Batch ID: P436358

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: P436670

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P436671

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436493

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436496

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436360

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436112

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

Reference Method: SM 5310 B-2011
Batch ID: P436473

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: P435963

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: P435958

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	93.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436135

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	105		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436448

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: P436117

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

Reference Method: SM 2320 B-2011
Batch ID: P436358

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.3		P	92 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P436670

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.8		P	85 - 115

Reference Method: SM 2540 C-2015
Batch ID: P436671

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.2		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P436493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P436496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	98.4		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P436473

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442501	Chloride	104		P	90 - 110
2442658	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442501	Sulfate	95.9		P	90 - 110
2442658	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442649	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442648	Kjeldahl Nitrogen	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442648	NO2NO3-N	96.7	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436117

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442187	Total-P	101	99.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P436360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443462	Fluoride	99.9	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442661	Organic Carbon	96.2	99.5	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P436473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442297	Organic Carbon	93.4	90.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442647	Color (true)	1.77	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442425	Turbidity	14.4	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442501	Chloride	0.782	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442501	Sulfate	0.485	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442649	Ammonia-N	0.183	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442648	Kjeldahl Nitrogen	0.347	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442648	NO2NO3-N	0.516	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442187	Total-P	1.97	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P436358

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443462	Total Alkalinity	1.08	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442426	TDS	7.73	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P436671

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442759	TDS	0.0	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443462	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442661	Organic Carbon	2.23	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P436473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442297	Organic Carbon	2.19	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121948

Included Lab Sample IDs: 2442646, 2442647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.8	100	P/P	90 - 110
Sulfate	99.8	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121951

Included Lab Sample IDs: 2442646, 2442647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A121952

Included Lab Sample IDs: 2442647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	99.5	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A121953

Included Lab Sample IDs: 2442646

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

Reference Method: SM 5310 B-2011

Run ID: A121999

Included Lab Sample IDs: 2442648

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122010

Included Lab Sample IDs: 2442648, 2442649

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122031

Included Lab Sample IDs: 2442648, 2442649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	98.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A122079

Included Lab Sample IDs: 2442646, 2442647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.4	95.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A122079

Included Lab Sample IDs: 2442646, 2442647

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122118

Included Lab Sample IDs: 2442648, 2442649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.3	P/P	90 - 110
Kjeldahl Nitrogen	98.3	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122126

Included Lab Sample IDs: 2442648, 2442649

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

Reference Method: SM 5310 B-2011

Run ID: A122134

Included Lab Sample IDs: 2442649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.1	95.0	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			1.77	
EPA 180.1 Rev. 2.0	Turbidity	105			14.4	
EPA 300.0 Rev. 2.1	Chloride	97.3	104	105	0.782	
	Sulfate	93.1	95.9	99.7	0.485	
EPA 350.1 Rev. 2.0	Ammonia-N	103	102	102		0.183
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	102	102		0.347
EPA 353.2 Rev. 2.0	NO2NO3-N	102	96.7	97.2		0.516
EPA 365.1 Rev. 2.0	Total-P	103	101	99.5		1.97
SM 2320 B-2011	Total Alkalinity	96.3			1.08	
SM 2540 C-2015	TDS	94.8			7.73	
	TDS	97.2			0.0	
SM 2540 D-2015	TSS	102				
	TSS	98.4				
SM 4500-F- C-2011	Fluoride	100	99.9	101		0.480
SM 5310 B-2011	Organic Carbon	95.6	96.2	99.5		2.23
	Organic Carbon	94.9	93.4	90.8		2.19

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2442646, 2442647
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2442646, 2442647
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2442646, 2442647
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2442646, 2442647
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2442648, 2442649
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2442648, 2442649
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2442648, 2442649
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2442648, 2442649
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2442646, 2442647
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2442646, 2442647
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2442646, 2442647
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2442646, 2442647
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2442648, 2442649

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	10/04/2023			10/04/2023 15:45	Samantha L Bates	2442647
	10/04/2023			10/04/2023 16:28	Samantha L Bates	2442646
EPA 180.1 Rev. 2.0	10/04/2023			10/04/2023 12:14	Alexis Price	2442646, 2442647
EPA 300.0 Rev. 2.1	10/04/2023			10/06/2023 21:58	James L Waggeberby	2442646
	10/04/2023			10/06/2023 22:14	James L Waggeberby	2442647
EPA 350.1 Rev. 2.0	10/04/2023			10/06/2023 13:56	Ping Hua	2442648
	10/04/2023			10/06/2023 13:57	Ping Hua	2442649
EPA 351.2 Rev. 2.0	10/04/2023	10/11/2023 12:38	Ping Hua	10/12/2023 12:41	Ping Hua	2442648
	10/04/2023	10/11/2023 12:38	Ping Hua	10/12/2023 12:49	Ping Hua	2442649
EPA 353.2 Rev. 2.0	10/04/2023			10/12/2023 14:25	Fadila Guebre	2442648
	10/04/2023			10/12/2023 14:31	Fadila Guebre	2442649
EPA 365.1 Rev. 2.0	10/04/2023	10/06/2023 14:30	Alexis Price	10/09/2023 17:47	James L Waggeberby	2442648
	10/04/2023	10/06/2023 14:30	Alexis Price	10/09/2023 17:48	James L Waggeberby	2442649
SM 2320 B-2011	10/04/2023			10/10/2023 03:44	Dale L. Simmons	2442646
	10/04/2023			10/10/2023 03:58	Dale L. Simmons	2442647
SM 2540 C-2015	10/04/2023			10/09/2023 15:48	Yijie Li	2442646, 2442647
SM 2540 D-2015	10/04/2023			10/09/2023 15:48	Yijie Li	2442646, 2442647
SM 4500-F- C-2011	10/04/2023			10/10/2023 01:46	Dale L. Simmons	2442646
	10/04/2023			10/10/2023 02:25	Dale L. Simmons	2442647
SM 5310 B-2011	10/04/2023			10/06/2023 01:28	Elise M. Gillis	2442648
	10/04/2023			10/13/2023 02:46	Elise M. Gillis	2442649