

Chemical Analysis Report

NW-DIST-2023-07-19-02

Florida DEP Laboratory
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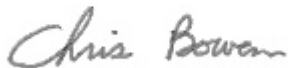
Event Description: **Eastern Lakes Run**
Request ID: **RQ-2023-07-17-45**
Customer: **NW-DIST**
Project ID: **SMP**

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 02-AUG-2023 11:59



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: HOLLY LAKE

Collection Date/Time: 07/18/2023 11:05

Field ID: G4NW0517

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2424923	DEP SOP: NU-094-1	Color (true)	11		PCU	P432720	
	EPA 180.1 Rev. 2.0	Turbidity	0.95	I	NTU	P432716	
	EPA 300.0 Rev. 2.1	Chloride	3.2		mg Cl/L	P432803	
		Sulfate	0.53		mg SO4/L	P432805	
	SM 2320 B-2011	Total Alkalinity	1.7	I	mg CaCO3/L	P432900	
	SM 2540 C-2015	TDS	30		mg/L	P433231	
	SM 2540 D-2015	TSS	3	I	mg/L	P433084	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P432903	MS, RPD
2424926	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P432918	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P432806	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432854	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P432777	
	SM 5310 B-2011	Organic Carbon	4.5		mg C/L	P432910	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: KINGS LAKE SOUTH LOBE

Collection Date/Time: 07/18/2023 10:30

Field ID: G4NW0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2424924	DEP SOP: NU-094-1	Color (true)	8.3		PCU	P432720	
	EPA 180.1 Rev. 2.0	Turbidity	0.90	I	NTU	P432716	
	EPA 300.0 Rev. 2.1	Chloride	3.4		mg Cl/L	P432803	
		Sulfate	0.95		mg SO4/L	P432805	
	SM 2320 B-2011	Total Alkalinity	1.0	I	mg CaCO3/L	P432900	
	SM 2540 C-2015	TDS	20	I	mg/L	P433231	
	SM 2540 D-2015	TSS	2	I	mg/L	P433084	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P432903	MS, RPD
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P432918	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P432808	
2424927	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432854	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P432777	
	SM 5310 B-2011	Organic Carbon	4.3		mg C/L	P432910	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ROBERTS LAKE

Collection Date/Time: 07/18/2023 12:15

Field ID: G3NW0447

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2424925	DEP SOP: NU-094-1	Color (true)	39		PCU	P432720	
	EPA 180.1 Rev. 2.0	Turbidity	0.80	I	NTU	P432716	
	EPA 300.0 Rev. 2.1	Chloride	3.0		mg Cl/L	P432803	
		Sulfate	1.5		mg SO4/L	P432805	
	SM 2320 B-2011	Total Alkalinity	1.6	I	mg CaCO3/L	P432900	
	SM 2540 C-2015	TDS	21	I	mg/L	P433231	
	SM 2540 D-2015	TSS	2	I	mg/L	P433084	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P432903	MS, RPD
2424928	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P432918	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.12	I	mg N/L	P432808	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P432854	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P432777	
	SM 5310 B-2011	Organic Carbon	4.3		mg C/L	P432910	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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: P432720

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432716

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432803

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432805

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432918

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432806

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432808

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432854

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432777

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: P432900

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

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: P433084

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P432903

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432910

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: P432720

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: P432716

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432803

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432918

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: P432806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432808

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432854

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: P432777

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P432900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.8		P	92 - 105

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: P433084

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	89.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P432903

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.2		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432910

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432803

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424765	Chloride	98.2		P	90 - 110
2424821	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424821	Sulfate	98.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424864	Ammonia-N	96.6	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432806

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424868	Kjeldahl Nitrogen	91.6	94.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424928	Kjeldahl Nitrogen	98.4	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424853	NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432777

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424866	Total-P	101	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P432903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425505	Fluoride	93.4	95.6	F/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432910

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424928	Organic Carbon	92.6	95.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424863	Color (true)	4.21	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424822	Turbidity	9.66	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424765	Chloride	0.249	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424765	Sulfate	0.881	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424864	Ammonia-N	1.14	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424868	Kjeldahl Nitrogen	2.39	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432808

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424928	Kjeldahl Nitrogen	0.222	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424853	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432777

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424866	Total-P	0.584	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P432900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425505	Total Alkalinity	1.19	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: P432903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425505	Fluoride	2.02	Spike	F	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424928	Organic Carbon	2.43	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: A120479

Included Lab Sample IDs: 2424923, 2424924, 2424925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	99.5	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120498

Included Lab Sample IDs: 2424923, 2424924, 2424925

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

Reference Method: DEP SOP: NU-094-1

Run ID: A120499

Included Lab Sample IDs: 2424923, 2424924, 2424925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120558

Included Lab Sample IDs: 2424926, 2424927, 2424928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A120580

Included Lab Sample IDs: 2424923, 2424924, 2424925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	91.6	95.7	P/P	90 - 110
Total Alkalinity	95.7	93.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120580

Included Lab Sample IDs: 2424923, 2424924, 2424925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	98.5	P/P	90 - 110
Fluoride	98.5	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A120583

Included Lab Sample IDs: 2424926, 2424927, 2424928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	97.2	P/P	90 - 110
Organic Carbon	97.2	97.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120585

Included Lab Sample IDs: 2424926, 2424927, 2424928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	97.5	P/P	90 - 110
Total-P	97.0	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120586

Included Lab Sample IDs: 2424926, 2424927, 2424928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	96.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120615

Included Lab Sample IDs: 2424926, 2424927, 2424928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	106	P/P	90 - 110
Kjeldahl Nitrogen	105	99.0	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)	101			4.21	
EPA 180.1 Rev. 2.0	Turbidity	100			9.66	
EPA 300.0 Rev. 2.1	Chloride	101	98.2	102	0.249	
	Sulfate	99.3	98.0		0.881	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	96.6	97.8		1.14
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.5	91.6	94.5		2.39
	Kjeldahl Nitrogen	99.6	98.4	98.6		0.222
EPA 353.2 Rev. 2.0	NO2NO3-N	102	98.5	98.5		0.0
EPA 365.1 Rev. 2.0	Total-P	99.1	101	101		0.584
SM 2320 B-2011	Total Alkalinity	94.8			1.19	
SM 2540 C-2015	TDS	98.0			6.28	
SM 2540 D-2015	TSS	89.7				
SM 4500-F- C-2011	Fluoride	97.2	93.4	95.6		2.02
SM 5310 B-2011	Organic Carbon	94.5	92.6	95.4		2.43

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2424923, 2424924, 2424925
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2424923, 2424924, 2424925
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2424923, 2424924, 2424925
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2424923, 2424924, 2424925
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2424926, 2424927, 2424928
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2424926, 2424927, 2424928
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2424926, 2424927, 2424928
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2424926, 2424927, 2424928
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2424923, 2424924, 2424925
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2424923, 2424924, 2424925
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2424923, 2424924, 2424925
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2424923, 2424924, 2424925
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2424926, 2424927, 2424928

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	07/19/2023			07/19/2023 15:06	Samantha L Bates	2424923, 2424924
	07/19/2023			07/19/2023 15:07	Samantha L Bates	2424925
EPA 180.1 Rev. 2.0	07/19/2023			07/19/2023 14:01	Alexis Price	2424923, 2424924
	07/19/2023			07/19/2023 14:02	Alexis Price	2424925
EPA 300.0 Rev. 2.1	07/19/2023			07/20/2023 22:00	James L Waggeberby	2424923
	07/19/2023			07/20/2023 22:15	James L Waggeberby	2424924
	07/19/2023			07/20/2023 22:31	James L Waggeberby	2424925
EPA 350.1 Rev. 2.0	07/19/2023			07/24/2023 12:21	Khloe J Berg	2424926
	07/19/2023			07/24/2023 12:23	Khloe J Berg	2424927
	07/19/2023			07/24/2023 12:24	Khloe J Berg	2424928
	07/19/2023			07/25/2023 12:08	Samantha L Bates	2424926
EPA 351.2 Rev. 2.0	07/19/2023	07/21/2023 11:50	Simonne.V. Calhoun	07/25/2023 12:42	Samantha L Bates	2424927
	07/19/2023	07/21/2023 11:50	Simonne.V. Calhoun	07/25/2023 12:43	Samantha L Bates	2424928
	07/19/2023	07/21/2023 11:50	Simonne.V. Calhoun	07/25/2023 12:43	Samantha L Bates	2424928
EPA 353.2 Rev. 2.0	07/19/2023			07/21/2023 12:49	Judith K. Clark	2424926
	07/19/2023			07/21/2023 12:50	Judith K. Clark	2424927
	07/19/2023			07/21/2023 12:51	Judith K. Clark	2424928
EPA 365.1 Rev. 2.0	07/19/2023	07/20/2023 14:21	Adam P Silver	07/24/2023 12:29	Simonne.V. Calhoun	2424926
	07/19/2023	07/20/2023 14:21	Adam P Silver	07/24/2023 12:30	Simonne.V. Calhoun	2424927
	07/19/2023	07/20/2023 14:21	Adam P Silver	07/24/2023 12:38	Simonne.V. Calhoun	2424928
SM 2320 B-2011	07/19/2023			07/22/2023 09:51	Dale L. Simmons	2424923
	07/19/2023			07/22/2023 10:01	Dale L. Simmons	2424924
	07/19/2023			07/22/2023 10:44	Dale L. Simmons	2424925
SM 2540 C-2015	07/19/2023			07/21/2023 17:02	Yijie Li	2424923, 2424924, 2424925
SM 2540 D-2015	07/19/2023			07/21/2023 17:02	Yijie Li	2424923, 2424924, 2424925
SM 4500-F- C-2011	07/19/2023			07/22/2023 09:51	Dale L. Simmons	2424923
	07/19/2023			07/22/2023 10:01	Dale L. Simmons	2424924
	07/19/2023			07/22/2023 10:44	Dale L. Simmons	2424925
SM 5310 B-2011	07/19/2023			07/21/2023 14:56	Elise M. Gillis	2424928
	07/19/2023			07/21/2023 16:45	Elise M. Gillis	2424926
	07/19/2023			07/21/2023 17:32	Elise M. Gillis	2424927