

Chemical Analysis Report

SE-DIST-2023-09-15-01

Florida DEP Laboratory
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DOH Accreditation E31780

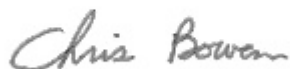
Event Description: **Lake Kenansville**
Request ID: **RQ-2023-08-21-46**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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2199 South Rock Road
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 04-OCT-2023 13:38



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: KENANSVILLE CENTER

Collection Date/Time: 09/14/2023 13:15

Field ID: G3SE0047

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437469	DEP SOP: NU-094-1	Color (true)	73		PCU	P435079	
	EPA 180.1 Rev. 2.0	Turbidity	12	A	NTU	P435084	
	EPA 300.0 Rev. 2.1	Chloride	77		mg Cl/L	P435377	
		Sulfate	12		mg SO4/L	P435380	
	SM 2320 B-2011	Total Alkalinity	86		mg CaCO3/L	P435325	
	SM 2540 C-2015	TDS	276		mg/L	P435609	
	SM 2540 D-2015	TSS	22		mg/L	P435611	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P435328	
2437470	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P435186	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P435649	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P435657	
	EPA 365.1 Rev. 2.0	Total-P	0.070		mg P/L	P435250	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P435601	
2437471	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P435096	

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: FB

Collection Date/Time: 09/14/2023 13:30

Field ID: FB_09142023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437472	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P435080	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P435084	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P435377	
		Sulfate	0.20	U	mg SO4/L	P435380	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P435325	
	SM 2540 C-2015	TDS	15	U	mg/L	P435609	
	SM 2540 D-2015	TSS	2	U	mg/L	P435611	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P435328	
2437473	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P435186	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P435651	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P435657	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P435250	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P435601	
2437474	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P435096	

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: P435079

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P435080

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435084

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435377

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435380

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435186

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435649

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435651

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435657

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435250

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

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

Reference Method: SM 2320 B-2011
Batch ID: P435325

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

Reference Method: SM 2540 C-2015
Batch ID: P435609

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P435611

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435328

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P435601

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: P435079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P435080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435084

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435377

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435380

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435186

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: P435649

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435651

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: P435657

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435250

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

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

Reference Method: SM 2320 B-2011
Batch ID: P435325

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P435609

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

Reference Method: SM 2540 D-2015
Batch ID: P435611

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.6		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435328

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

Reference Method: SM 5310 B-2011
Batch ID: P435601

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437205	Chloride	102		P	90 - 110
2437371	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437205	Sulfate	99.9		P	90 - 110
2437371	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437449	Ammonia-N	98.8	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437461	Kjeldahl Nitrogen	97.7	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437570	Kjeldahl Nitrogen	91.9	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435657

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437470	NO2NO3-N	98.0	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437483	Total-P	110	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437463	O-Phosphate-P	96.5	99.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P435328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437756	Fluoride	99.9	98.9	P/P	94 - 106

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P435601

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437149	Organic Carbon	93.8	96.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437404	Color (true)	0.691	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P435080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437480	Color (true)	0.755	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437469	Turbidity	7.73	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437205	Chloride	0.859	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437205	Sulfate	0.170	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437449	Ammonia-N	0.964	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437461	Kjeldahl Nitrogen	1.94	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437570	Kjeldahl Nitrogen	2.19	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437470	NO2NO3-N	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437483	Total-P	0.379	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437463	O-Phosphate-P	2.56	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P435325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437756	Total Alkalinity	0.944	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437208	TDS	2.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437756	Fluoride	0.968	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437149	Organic Carbon	2.56	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: A121567

Included Lab Sample IDs: 2437469, 2437472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110
Color (true)	99.7	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121569

Included Lab Sample IDs: 2437469, 2437472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	96.5	97.0	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121572

Included Lab Sample IDs: 2437471, 2437474

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.7	98.2	P/P	90 - 110
O-Phosphate-P	98.2	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121624

Included Lab Sample IDs: 2437470, 2437473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121687

Included Lab Sample IDs: 2437469, 2437472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.7	97.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121687

Included Lab Sample IDs: 2437469, 2437472

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121698

Included Lab Sample IDs: 2437473

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121711

Included Lab Sample IDs: 2437469, 2437472

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121711

Included Lab Sample IDs: 2437469, 2437472

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121723

Included Lab Sample IDs: 2437470

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	103	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A121794

Included Lab Sample IDs: 2437470, 2437473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	98.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121819

Included Lab Sample IDs: 2437470, 2437473

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121848

Included Lab Sample IDs: 2437470, 2437473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	104	P/P	90 - 110
Kjeldahl Nitrogen	106	109	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)	99.6			0.691	
	Color (true)	99.4			0.755	
EPA 180.1 Rev. 2.0	Turbidity	101			7.73	
EPA 300.0 Rev. 2.1	Chloride	103	102	104	0.859	
	Sulfate	101	99.9	102	0.170	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	98.8	99.8		0.964
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6	97.7	95.1		1.94
	Kjeldahl Nitrogen	99.6	91.9	95.2		2.19
EPA 353.2 Rev. 2.0	NO2NO3-N	100	98.0	99.0		1.02
EPA 365.1 Rev. 2.0	Total-P	105	109	110		0.379
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	96.5	99.0		2.56
SM 2320 B-2011	Total Alkalinity	95.8			0.944	
SM 2540 C-2015	TDS	104			2.41	
SM 2540 D-2015	TSS	99.6				
SM 4500-F- C-2011	Fluoride	100	99.9	98.9		0.968
SM 5310 B-2011	Organic Carbon	97.6	93.8	96.4		2.56

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2437469, 2437472
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2437469, 2437472
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2437469, 2437472
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2437469, 2437472
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2437470, 2437473
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2437470, 2437473
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2437470, 2437473
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2437470, 2437473
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2437471, 2437474
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2437469, 2437472
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2437469, 2437472
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2437469, 2437472
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2437469, 2437472
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2437470, 2437473

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	09/15/2023			09/15/2023 14:43	Alexis Price	2437469
	09/15/2023			09/15/2023 14:46	Alexis Price	2437472
EPA 180.1 Rev. 2.0	09/15/2023			09/15/2023 13:50	Alexis Price	2437469
	09/15/2023			09/15/2023 13:51	Alexis Price	2437472
EPA 300.0 Rev. 2.1	09/15/2023			09/21/2023 12:23	James L Waggeberby	2437469
	09/15/2023			09/21/2023 12:38	James L Waggeberby	2437472
EPA 350.1 Rev. 2.0	09/15/2023			09/19/2023 11:43	Ping Hua	2437470
	09/15/2023			09/19/2023 11:44	Ping Hua	2437473
EPA 351.2 Rev. 2.0	09/15/2023	09/28/2023 13:28	Simonne.V. Calhoun	09/29/2023 11:26	Ping Hua	2437470
	09/15/2023	09/28/2023 13:28	Simonne.V. Calhoun	09/29/2023 12:00	Ping Hua	2437473
EPA 353.2 Rev. 2.0	09/15/2023			09/27/2023 13:49	Anna M. Plaviak	2437470
	09/15/2023			09/27/2023 13:55	Anna M. Plaviak	2437473
EPA 365.1 Rev. 2.0	09/15/2023	09/20/2023 15:00	Alexis Price	09/21/2023 13:54	Simonne.V. Calhoun	2437473
	09/15/2023	09/20/2023 15:00	Alexis Price	09/22/2023 13:47	James L Waggeberby	2437470
EPA 365.1 Rev. 2.0 dissolved	09/15/2023			09/15/2023 18:07	Adam P Silver	2437471
	09/15/2023			09/15/2023 18:13	Adam P Silver	2437474
SM 2320 B-2011	09/15/2023			09/21/2023 01:48	Dale L. Simmons	2437469
	09/15/2023			09/21/2023 01:57	Dale L. Simmons	2437472
SM 2540 C-2015	09/15/2023			09/19/2023 15:12	Yijie Li	2437469, 2437472
SM 2540 D-2015	09/15/2023			09/19/2023 15:12	Yijie Li	2437469, 2437472
SM 4500-F- C-2011	09/15/2023			09/21/2023 01:48	Dale L. Simmons	2437469
	09/15/2023			09/21/2023 01:57	Dale L. Simmons	2437472
SM 5310 B-2011	09/15/2023			09/27/2023 14:13	Khloe J Berg	2437470
	09/15/2023			09/27/2023 14:27	Khloe J Berg	2437473