

Chemical Analysis Report

SE-DIST-2023-06-15-01

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

Event Description: **Jupiter / Jupiter Deployment**
Request ID: **RQ-2023-06-12-67**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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Date Certified: 12-JUL-2023 14:37



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: SIMS CREEK NEAR SIMS CREEK DR

Collection Date/Time: 06/14/2023 09:35

Field ID: G2SE0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417660	DEP SOP: NU-094-1	Color (true)	50		PCU	P431339	
	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P431349	
	EPA 300.0 Rev. 2.1	Chloride	2.4E+03		mg Cl/L	P431682	
		Sulfate	330		mg SO4/L	P431685	
	SM 2320 B-2011	Total Alkalinity	122		mg CaCO3/L	P431796	
	SM 2540 C-2015	TDS	3.90E+03	Q	mg/L	P432262	
	SM 2540 D-2015	TSS	4	I	mg/L	P431827	
	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P431808	
2417662	EPA 350.1 Rev. 2.0	Ammonia-N	0.23		mg N/L	P431661	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P431648	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P431753	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P431452	
	SM 5310 B-2011	Organic Carbon	9.8		mg C/L	P431591	

Ref. Method and Comment:

SM 2540 C-2015: The sample needed to be reanalyzed because it was processed according to incorrect field conductivity. The reported result is consistent with the conductivity measured in the laboratory, 8200 umhos/cm.

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

Sample Location: Jones Creek at SR 706

Collection Date/Time: 06/14/2023 09:55

Field ID: G2SE0074

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417661	DEP SOP: NU-094-1	Color (true)	70		PCU	P431339	
	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P431349	
	EPA 300.0 Rev. 2.1	Chloride	7.9E+03		mg Cl/L	P431683	
		Sulfate	1.1E+03		mg SO4/L	P431686	
	SM 2320 B-2011	Total Alkalinity	135		mg CaCO3/L	P431796	
	SM 2540 C-2015	TDS	1.46E+04		mg/L	P431886	
	SM 2540 D-2015	TSS	5	I	mg/L	P431827	
	SM 4500-F- C-2011	Fluoride	0.62		mg F/L	P431698	
2417663	EPA 350.1 Rev. 2.0	Ammonia-N	0.091		mg N/L	P431661	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.80		mg N/L	P431648	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P431753	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P431452	
	SM 5310 B-2011	Organic Carbon	9.1		mg C/L	P431591	

Ref. Method and Comment:

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

SM 4500-F- C-2011: Batch matrix spike recoveries and relative percent difference are unavailable because of analytical difficulties.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P431339

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431349

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431661

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431648

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431753

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: P431452

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

Reference Method: SM 2320 B-2011
Batch ID: P431796

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

Reference Method: SM 2540 C-2015
Batch ID: P431886

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P432262

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431827

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431698

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431808

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P431591

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: P431339

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: P431349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431661

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431648

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	107		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431452

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.6		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P431796

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.9		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431886

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.2		P	90 - 110

Reference Method: SM 2540 C-2015
Batch ID: P432262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.3		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431827

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

Reference Method: SM 4500-F- C-2011
Batch ID: P431698

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

Reference Method: SM 4500-F- C-2011
Batch ID: P431808

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

Reference Method: SM 5310 B-2011
Batch ID: P431591

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417496	Chloride	99.0		P	90 - 110
2417639	Chloride	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417681	Chloride	96.5		P	90 - 110
2417909	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417496	Sulfate	93.1		P	90 - 110
2417639	Sulfate	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417681	Sulfate	96.3		P	90 - 110
2417909	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431661

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417472	Ammonia-N	103	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431648

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417572	Kjeldahl Nitrogen	106	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417662	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431452

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417576	Total-P	91.8	94.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P431808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P431808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419627	Fluoride	99.0	99.0	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431591

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417663	Organic Carbon	87.9	91.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417571	Color (true)	0.519	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417573	Turbidity	11.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417496	Chloride	0.711	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417681	Chloride	0.613	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417496	Sulfate	0.457	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417681	Sulfate	0.693	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417472	Ammonia-N	2.41	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431648

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417572	Kjeldahl Nitrogen	1.08	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P431753

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417662	NO2NO3-N	0.411	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P431452

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417576	Total-P	2.79	Spike	P	0 - 20

Reference Method: SM 2320 B-2011

Batch ID: P431796

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419627	Total Alkalinity	0.138	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P431886

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417763	TDS	1.35	Sample	P	0 - 10

Reference Method: SM 2540 C-2015

Batch ID: P432262

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420354	TDS	0.702	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P431808

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419627	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011

Batch ID: P431591

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417663	Organic Carbon	2.81	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: 119977

Included Lab Sample IDs: 2417662, 2417663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	97.6	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A119831

Included Lab Sample IDs: 2417660, 2417661

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119833

Included Lab Sample IDs: 2417660, 2417661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119901

Included Lab Sample IDs: 2417663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119917

Included Lab Sample IDs: 2417662

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119927

Included Lab Sample IDs: 2417660, 2417661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Chloride	100	100	P/P	90 - 110
Sulfate	99.6	99.6	P/P	90 - 110
Sulfate	99.6	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A119946

Included Lab Sample IDs: 2417662, 2417663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	97.1	P/P	90 - 110
Organic Carbon	96.4	94.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A119988

Included Lab Sample IDs: 2417661

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119992

Included Lab Sample IDs: 2417662, 2417663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.5	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120022

Included Lab Sample IDs: 2417662, 2417663

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

Reference Method: SM 2320 B-2011

Run ID: A120040

Included Lab Sample IDs: 2417660, 2417661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	92.1	95.2	P/P	90 - 110
Total Alkalinity	95.3	92.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120040

Included Lab Sample IDs: 2417660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	101	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			0.519	
EPA 180.1 Rev. 2.0	Turbidity	98.7			11.0	
EPA 300.0 Rev. 2.1	Chloride	99.9	99.0	99.8	0.711	
	Chloride	101	96.5	103	0.613	
	Sulfate	97.6	93.1	95.8	0.457	
	Sulfate	99.6	96.3	100	0.693	
EPA 350.1 Rev. 2.0	Ammonia-N	96.4	103	99.2		2.41
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	106	104		1.08
EPA 353.2 Rev. 2.0	NO2NO3-N	107	106	106		0.411
EPA 365.1 Rev. 2.0	Total-P	96.6	91.8	94.4		2.79
SM 2320 B-2011	Total Alkalinity	95.9			0.138	
SM 2540 C-2015	TDS	97.2			1.35	
	TDS	96.3			0.702	
SM 2540 D-2015	TSS	98.5				
SM 4500-F- C-2011	Fluoride	103				
	Fluoride	100	99.0	99.0		0.0
SM 5310 B-2011	Organic Carbon	95.6	87.9	91.1		2.81

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2417660, 2417661
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2417660, 2417661
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2417660, 2417661
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2417660, 2417661
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2417662, 2417663
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2417662, 2417663
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2417662, 2417663
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2417662, 2417663
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2417660, 2417661
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2417660, 2417661
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2417660, 2417661
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2417660, 2417661
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2417662, 2417663

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	06/15/2023			06/15/2023 15:04	Chandler E Cox	2417660
	06/15/2023			06/15/2023 15:05	Chandler E Cox	2417661
EPA 180.1 Rev. 2.0	06/15/2023			06/15/2023 13:28	Alexis Price	2417660, 2417661
EPA 300.0 Rev. 2.1	06/15/2023			06/21/2023 18:16	James L Waggeberby	2417660
	06/15/2023			06/21/2023 20:47	James L Waggeberby	2417661
EPA 350.1 Rev. 2.0	06/15/2023			06/22/2023 13:57	Ping Hua	2417662
	06/15/2023			06/22/2023 13:58	Ping Hua	2417663
EPA 351.2 Rev. 2.0	06/15/2023	06/22/2023 12:16	Dana G. Hughes	06/23/2023 09:38	Ping Hua	2417662
	06/15/2023	06/22/2023 12:16	Dana G. Hughes	06/23/2023 09:40	Ping Hua	2417663
EPA 353.2 Rev. 2.0	06/15/2023			06/26/2023 09:59	Beverly Y. Sanders	2417662
	06/15/2023			06/26/2023 10:13	Beverly Y. Sanders	2417663
EPA 365.1 Rev. 2.0	06/15/2023	06/19/2023 15:25	Adam P Silver	06/20/2023 09:48	James L Waggeberby	2417663
	06/15/2023	06/19/2023 15:25	Adam P Silver	06/20/2023 12:13	James L Waggeberby	2417662
SM 2320 B-2011	06/15/2023			06/26/2023 21:29	Adam P Silver	2417660
	06/15/2023			06/26/2023 22:59	Adam P Silver	2417661
SM 2540 C-2015	06/15/2023			06/19/2023 14:50	Dana G. Hughes	2417661
	06/15/2023			06/30/2023 14:35	Dana G. Hughes	2417660
SM 2540 D-2015	06/15/2023			06/19/2023 14:50	Dana G. Hughes	2417660, 2417661
SM 4500-F- C-2011	06/15/2023			06/23/2023 02:13	Adam P Silver	2417661
	06/15/2023			06/26/2023 21:29	Adam P Silver	2417660
SM 5310 B-2011	06/15/2023			06/21/2023 00:18	Elise M. Gillis	2417663
	06/15/2023			06/21/2023 04:25	Elise M. Gillis	2417662