

Chemical Analysis Report

SE-DIST-2023-08-10-02

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

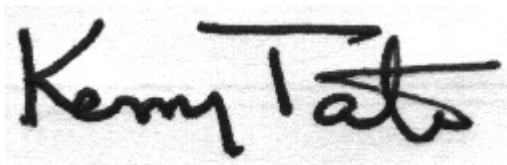
Event Description: **Jupiter / Jupiter Deployment**
Request ID: **RQ-2023-07-31-17**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Jordan Skaggs

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 06-SEP-2023 10:25

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: JONES CREEK AT SR 706

Collection Date/Time: 08/09/2023 12:00

Field ID: G2SE0074

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430311	DEP SOP: NU-094-1	Color (true)	99		PCU	P433711	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P433717	
	EPA 300.0 Rev. 2.1	Chloride	3.7E+03		mg Cl/L	P434296	
		Sulfate	470		mg SO4/L	P434081	
	SM 2320 B-2011	Total Alkalinity	183		mg CaCO3/L	P434025	
	SM 2540 C-2015	TDS	6.27E+03		mg/L	P434221	
	SM 2540 D-2015	TSS	4	I	mg/L	P434222	
	SM 4500-F- C-2011	Fluoride	0.33		mg F/L	P434032	
2430313	EPA 350.1 Rev. 2.0	Ammonia-N	0.17		mg N/L	P434127	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.80		mg N/L	P434172	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P434380	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P433900	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P433846	

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: SIMS CREEK NEAR SIMS CREEK DR

Collection Date/Time: 08/09/2023 12:30

Field ID: G2SE0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430312	DEP SOP: NU-094-1	Color (true)	45		PCU	P433711	
	EPA 180.1 Rev. 2.0	Turbidity	9.5		NTU	P433717	
	EPA 300.0 Rev. 2.1	Chloride	7.5E+03		mg Cl/L	P434296	
		Sulfate	1.0E+03		mg SO4/L	P434301	
	SM 2320 B-2011	Total Alkalinity	152		mg CaCO3/L	P434025	
	SM 2540 C-2015	TDS	1.26E+04		mg/L	P434221	
	SM 2540 D-2015	TSS	11	AJ	mg/L	P434223	RPD
	SM 4500-F- C-2011	Fluoride	0.57		mg F/L	P434032	
2430314	EPA 350.1 Rev. 2.0	Ammonia-N	0.053		mg N/L	P434127	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P434172	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P434380	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P433900	
	SM 5310 B-2011	Organic Carbon	9.8		mg C/L	P433804	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 22600 umhos/cm.

SM 2540 D-2015: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P433711

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433717

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434081

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434296

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434301

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434127

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434172

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434380

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433900

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: P434025

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

Reference Method: SM 2540 C-2015
Batch ID: P434221

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P434222

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P434223

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P434032

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P433804

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

Reference Method: SM 5310 B-2011
Batch ID: P433846

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: P433711

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: P433717

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434296

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434301

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434127

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434172

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434380

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433900

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P434025

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.6		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P434221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.8		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P434222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.3		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P434223

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P434032

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.6		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433804

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

Reference Method: SM 5310 B-2011
Batch ID: P433846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430345	Sulfate	99.2		P	90 - 110
2430405	Sulfate	96.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430372	Chloride	101		P	90 - 110
2430510	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430372	Sulfate	97.8		P	90 - 110
2430510	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434127

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430775	Ammonia-N	99.0	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430745	Kjeldahl Nitrogen	112	105	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430228	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430275	Total-P	95.2	92.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P434032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431365	Fluoride	99.3	100	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433804

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429701	Organic Carbon	91.9	92.2	P/P	85 - 115

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P433846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430088	Organic Carbon	95.4	96.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P433711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430364	Color (true)	0.815	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433717

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430290	Turbidity	0.866	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430345	Sulfate	0.836	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430372	Chloride	0.114	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430372	Sulfate	0.550	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430775	Ammonia-N	1.54	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430745	Kjeldahl Nitrogen	5.32	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430228	NO2NO3-N	0.980	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430275	Total-P	2.05	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P434025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431365	Total Alkalinity	0.779	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P434221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430405	TDS	7.73	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P434223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430312	TSS	10.9	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P434032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431365	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P433804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2429701	Organic Carbon	0.293	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P433846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430088	Organic Carbon	1.24	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: A120968

Included Lab Sample IDs: 2430311, 2430312

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.9	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120971

Included Lab Sample IDs: 2430311, 2430312

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: SM 5310 B-2011

Run ID: A121017

Included Lab Sample IDs: 2430314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	97.6	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A121033

Included Lab Sample IDs: 2430313

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.3	94.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121057

Included Lab Sample IDs: 2430311

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	97.4	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121096

Included Lab Sample IDs: 2430313

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121102

Included Lab Sample IDs: 2430314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	98.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121114

Included Lab Sample IDs: 2430311, 2430312

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	94.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A121114

Included Lab Sample IDs: 2430311, 2430312

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121154

Included Lab Sample IDs: 2430313, 2430314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121182

Included Lab Sample IDs: 2430311, 2430312

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.6	98.0	P/P	90 - 110
Sulfate	97.5	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121202

Included Lab Sample IDs: 2430313, 2430314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121252

Included Lab Sample IDs: 2430313, 2430314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	99.5	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	101			0.815	
EPA 180.1 Rev. 2.0	Turbidity	99.8			0.866	
EPA 300.0 Rev. 2.1	Chloride	98.5	101	102	0.114	
	Sulfate	97.1	99.2	96.4	0.836	
	Sulfate	95.9	97.8	98.3	0.550	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	99.0	101		1.54
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1	112	105		5.32
EPA 353.2 Rev. 2.0	NO2NO3-N	101	102	102		0.980
EPA 365.1 Rev. 2.0	Total-P	102	95.2	92.2		2.05
SM 2320 B-2011	Total Alkalinity	96.6			0.779	
SM 2540 C-2015	TDS	94.8			7.73	
SM 2540 D-2015	TSS	92.3				
	TSS	95.8			10.9	
SM 4500-F- C-2011	Fluoride	98.6	99.3	100		0.480
SM 5310 B-2011	Organic Carbon	95.6	91.9	92.2		0.293
	Organic Carbon	95.2	95.4	96.7		1.24

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2430311, 2430312
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2430311, 2430312
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2430311, 2430312
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2430311, 2430312
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2430313, 2430314
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2430313, 2430314
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2430313, 2430314
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2430313, 2430314
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2430311, 2430312
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2430311, 2430312
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2430311, 2430312
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2430311, 2430312
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2430313, 2430314

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	08/10/2023			08/10/2023 14:29	Samantha L Bates	2430311
	08/10/2023			08/10/2023 14:30	Samantha L Bates	2430312
EPA 180.1 Rev. 2.0	08/10/2023			08/10/2023 13:44	Alexis Price	2430311
	08/10/2023			08/10/2023 13:46	Alexis Price	2430312
EPA 300.0 Rev. 2.1	08/10/2023			08/19/2023 08:35	James L Waggeberby	2430311
	08/10/2023			08/23/2023 14:59	James L Waggeberby	2430311
	08/10/2023			08/23/2023 15:22	James L Waggeberby	2430312
EPA 350.1 Rev. 2.0	08/10/2023			08/21/2023 13:11	Khloe J Berg	2430313
	08/10/2023			08/21/2023 13:12	Khloe J Berg	2430314
	08/10/2023			08/23/2023 14:04	Samantha L Bates	2430313
EPA 351.2 Rev. 2.0	08/10/2023	08/22/2023 15:30	Simonne.V. Calhoun	08/23/2023 14:06	Samantha L Bates	2430314
EPA 353.2 Rev. 2.0	08/10/2023			08/25/2023 12:09	Anna M. Plaviak	2430313
	08/10/2023			08/25/2023 12:11	Anna M. Plaviak	2430314
EPA 365.1 Rev. 2.0	08/10/2023	08/16/2023 16:02	Adam P Silver	08/17/2023 13:06	James L Waggeberby	2430313
	08/10/2023	08/16/2023 16:02	Adam P Silver	08/17/2023 16:58	James L Waggeberby	2430314
SM 2320 B-2011	08/10/2023			08/18/2023 04:46	Dale L. Simmons	2430311
	08/10/2023			08/18/2023 05:15	Dale L. Simmons	2430312
SM 2540 C-2015	08/10/2023			08/15/2023 14:46	Yijie Li	2430311, 2430312
SM 2540 D-2015	08/10/2023			08/15/2023 14:46	Yijie Li	2430311, 2430312
SM 4500-F- C-2011	08/10/2023			08/18/2023 02:46	Dale L. Simmons	2430311
	08/10/2023			08/18/2023 02:57	Dale L. Simmons	2430312
SM 5310 B-2011	08/10/2023			08/12/2023 07:05	Elise M. Gillis	2430314
	08/10/2023			08/14/2023 21:06	Elise M. Gillis	2430313