Chemical Analysis Report

SO-DIST-2023-03-14-01

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

Event Description: **2023 SMP : P Riv**
Request ID: **RQ-2023-03-06-44**
Customer: **SO-DIST**
Project ID: **SMP**

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FLDEP South District Office
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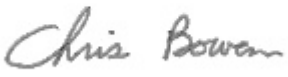
Date Certified: 05-APR-2023 14:06



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: Peace River Estuary @ Harbour Heights **Collection Date/Time: 03/13/2023 08:50**

Field ID: G3SD0148 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393600	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P427144	
	SM 2320 B-2011	Total Alkalinity	86		mg CaCO3/L	P427291	
	SM 2540 D-2015	TSS	6	I A	mg/L	P427539	
	SM 4500-F- C-2011	Fluoride	0.89		mg F/L	P427293	
2393602	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P427569	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.83		mg N/L	P427382	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P427699	
	EPA 365.1 Rev. 2.0	Total-P	0.40		mg P/L	P427301	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P427626	

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: Peace River Above Horse Creek 2 **Collection Date/Time: 03/13/2023 09:50**

Field ID: G3SD0154 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393601	EPA 180.1 Rev. 2.0	Turbidity	6.0	A	NTU	P427144	
	SM 2320 B-2011	Total Alkalinity	101	J	mg CaCO3/L	P427440	LCS
	SM 2540 D-2015	TSS	11		mg/L	P427372	
	SM 4500-F- C-2011	Fluoride	0.84		mg F/L	P427442	
2393603	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P427418	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.98		mg N/L	P427252	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.28		mg N/L	P427289	
	EPA 365.1 Rev. 2.0	Total-P	1.0		mg P/L	P427170	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P427458	

Ref. Method and Comment:
SM 2320 B-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.
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: EPA 180.1 Rev. 2.0
Batch ID: P427144

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427418

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427252

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427289

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427699

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427170

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427301

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: P427291

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2320 B-2011
Batch ID: P427440

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 D-2015
Batch ID: P427372

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P427539

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P427293

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P427442

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P427458

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

Reference Method: SM 5310 B-2011
Batch ID: P427626

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427144

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427418

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

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: P427252

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427289

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427699

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427170

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427301

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P427291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.1		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P427440

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	93.7		F	94 - 106

Reference Method: SM 2540 D-2015
Batch ID: P427372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.9		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P427539

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427293

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P427442

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P427626

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393537	Ammonia-N	99.2	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393782	Ammonia-N	99.4	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393521	Kjeldahl Nitrogen	95.1	96.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393602	Kjeldahl Nitrogen	92.6	93.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427289

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393603	NO2NO3-N	94.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393782	NO2NO3-N	99.6	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393626	Total-P	103	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393952	Total-P	97.1	96.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P427293

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393780	Fluoride	98.5	99.2	P/P	94 - 104

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P427442

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394807	Fluoride	101	100	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393603	Organic Carbon	93.4	94.3	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P427626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393602	Organic Carbon	89.1	91.5	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393601	Turbidity	0.499	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393537	Ammonia-N	0.498	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393782	Ammonia-N	0.532	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393521	Kjeldahl Nitrogen	0.728	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393602	Kjeldahl Nitrogen	0.589	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427289

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393603	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393782	NO2NO3-N	0.482	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393626	Total-P	2.39	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393952	Total-P	0.313	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P427291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393780	Total Alkalinity	1.11	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P427440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394807	Total Alkalinity	1.15	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011
Batch ID: P427293

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393780	Fluoride	0.483	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P427442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394807	Fluoride	0.959	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P427458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393603	Organic Carbon	0.576	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P427626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393602	Organic Carbon	2.08	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A117982
Included Lab Sample IDs: 2393600, 2393601

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A118027
Included Lab Sample IDs: 2393603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.9	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A118051
Included Lab Sample IDs: 2393603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A118053
Included Lab Sample IDs: 2393600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.0	93.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A118053
Included Lab Sample IDs: 2393600

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118063
Included Lab Sample IDs: 2393603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A118068
Included Lab Sample IDs: 2393602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118109
Included Lab Sample IDs: 2393603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.5	96.9	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A118116
Included Lab Sample IDs: 2393601

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.5	93.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A118116
Included Lab Sample IDs: 2393601

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

Reference Method: SM 5310 B-2011
Run ID: A118128
Included Lab Sample IDs: 2393603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	97.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118148
Included Lab Sample IDs: 2393602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.7	96.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118162
Included Lab Sample IDs: 2393602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.2	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A118179
Included Lab Sample IDs: 2393602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	95.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A118209
Included Lab Sample IDs: 2393602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	103	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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	100				0.499	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	99.2	99.8			0.498
	Ammonia-N	97.8	99.4	98.8			0.532
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	95.1	96.5			0.728
	Kjeldahl Nitrogen	102	92.6	93.3			0.589
EPA 353.2 Rev. 2.0	NO2NO3-N	100	94.5				0.0
	NO2NO3-N	103	99.6	99.2			0.482
EPA 365.1 Rev. 2.0	Total-P	101	103	100			2.39
	Total-P	101	97.1	96.8			0.313
SM 2320 B-2011	Total Alkalinity	95.1				1.11	
	Total Alkalinity	93.7				1.15	
SM 2540 D-2015	TSS	96.9					
	TSS	94.8					
SM 4500-F- C-2011	Fluoride	98.2	98.5	99.2			0.483
	Fluoride	100	101	100			0.959
SM 5310 B-2011	Organic Carbon	94.4	93.4	94.3			0.576
	Organic Carbon	97.4	89.1	91.5			2.08

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2393600, 2393601
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2393602, 2393603
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2393602, 2393603
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2393602, 2393603
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2393602, 2393603
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2393600, 2393601
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2393600, 2393601
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2393600, 2393601
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2393602, 2393603

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	03/14/2023			03/14/2023 14:06	Chandler E Cox	2393600
	03/14/2023			03/14/2023 14:07	Chandler E Cox	2393601
EPA 350.1 Rev. 2.0	03/14/2023			03/21/2023 13:29	Judith K. Clark	2393603
	03/14/2023			03/23/2023 11:43	Khloe J Berg	2393602
EPA 351.2 Rev. 2.0	03/14/2023	03/16/2023 15:00	Simonne.V. Calhoun	03/17/2023 13:22	Judith K. Clark	2393603
	03/14/2023	03/21/2023 13:15	Simonne.V. Calhoun	03/22/2023 16:07	Judith K. Clark	2393602
EPA 353.2 Rev. 2.0	03/14/2023			03/17/2023 10:05	Beverly Y. Sanders	2393603
	03/14/2023			03/27/2023 11:36	Beverly Y. Sanders	2393602
EPA 365.1 Rev. 2.0	03/14/2023	03/15/2023 13:09	Adam P Silver	03/16/2023 09:44	James L Waggerby	2393603
	03/14/2023	03/17/2023 15:18	Adam P Silver	03/17/2023 18:19	James L Waggerby	2393602
SM 2320 B-2011	03/14/2023			03/16/2023 20:32	Dale L. Simmons	2393600
	03/14/2023			03/22/2023 03:50	Dale L. Simmons	2393601
SM 2540 D-2015	03/14/2023			03/16/2023 14:45	Blanca Fach	2393601
	03/14/2023			03/17/2023 15:51	Yijie Li	2393600
SM 4500-F- C-2011	03/14/2023			03/16/2023 18:57	Dale L. Simmons	2393600
	03/14/2023			03/22/2023 03:50	Dale L. Simmons	2393601
SM 5310 B-2011	03/14/2023			03/21/2023 17:04	Elise M. Gillis	2393603
	03/14/2023			03/24/2023 00:10	Elise M. Gillis	2393602