Chemical Analysis Report

SE-DIST-2022-08-05-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Yeehaw Junction**
Request ID: **RQ-2022-07-25-27**
Customer: **SE-DIST**
Project ID: **SMP**

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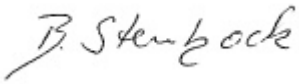
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 29-AUG-2022 18:14



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: Blue Cypress Creek **Collection Date/Time: 08/04/2022 09:00**

Field ID: G3SE0048 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2346682	DEP SOP: NU-094-1	Color (true)	370		PCU	P417735	
	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P417742	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P418209	
		Sulfate	8.4		mg SO4/L	P418212	
	SM 2320 B-2011	Total Alkalinity	35		mg CaCO3/L	P418047	
	SM 2540 C-2011	TDS	156		mg/L	P418185	
	SM 2540 D-2011	TSS	2	I	mg/L	P418229	
	SM 4500-F- C-2011	Fluoride	0.088	I	mg F/L	P418051	
2346684	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P418038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P418278	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.088		mg N/L	P417902	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P417928	
	SM 5310 B-2011	Organic Carbon	33		mg C/L	P417957	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Padgett Branch @ 441 **Collection Date/Time: 08/04/2022 09:40**

Field ID: G3SE0026 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2346683	DEP SOP: NU-094-1	Color (true)	350		PCU	P417735	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P417742	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P418209	
		Sulfate	13		mg SO4/L	P418212	
	SM 2320 B-2011	Total Alkalinity	47		mg CaCO3/L	P418047	
	SM 2540 C-2011	TDS	205		mg/L	P418185	
	SM 2540 D-2011	TSS	25		mg/L	P418229	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P418051	
2346685	EPA 350.1 Rev. 2.0	Ammonia-N	0.045		mg N/L	P418038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P418279	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.066		mg N/L	P417902	
	EPA 365.1 Rev. 2.0	Total-P	0.64		mg P/L	P417929	
	SM 5310 B-2011	Organic Carbon	34		mg C/L	P417957	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Fort Drum Marsh Conservation Area Northeast Entrance **Collection Date/Time: 08/04/2022 10:05**

Field ID: G3SE0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2346686	DEP SOP: NU-094-1	Color (true)	200		PCU	P417735	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P417742	
	EPA 300.0 Rev. 2.1	Chloride	49		mg Cl/L	P418209	
		Sulfate	4.9		mg SO4/L	P418212	
	SM 2320 B-2011	Total Alkalinity	47		mg CaCO3/L	P418047	
	SM 2540 C-2011	TDS	213		mg/L	P418185	
	SM 2540 D-2011	TSS	21		mg/L	P418229	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P418051	
2346687	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P418038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P418279	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417902	
	EPA 365.1 Rev. 2.0	Total-P	0.099		mg P/L	P417929	
	SM 5310 B-2011	Organic Carbon	32		mg C/L	P417957	

Ref. Method and Comment:
SM 2540 D-2011: 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: P417735

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417742

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418209

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418212

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418038

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418278

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418279

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417902

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417928

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417929

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

Reference Method: SM 2320 B-2011
Batch ID: P418047

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

Reference Method: SM 2540 C-2011
Batch ID: P418185

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418229

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418051

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417957

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: P417735

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417742

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418209

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418038

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418278

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418279

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: P417902

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: P417928

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417929

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P418047

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

Reference Method: SM 4500-F- C-2011
Batch ID: P418051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346641	Chloride	97.4		P	90 - 110
2346682	Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346641	Sulfate	96.9		P	90 - 110
2346682	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346684	Ammonia-N	95.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347196	Kjeldahl Nitrogen	114	106	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417902

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346642	NO2NO3-N	105	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346571	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347209	Total-P	106	105	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P418051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346639	Fluoride	100	100	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346589	Organic Carbon	96.4	98.6	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346588	Color (true)	1.18	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346489	Turbidity	0.314	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346641	Chloride	0.430	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346641	Sulfate	2.77	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346684	Ammonia-N	4.05	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346293	Kjeldahl Nitrogen	0.848	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418279

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347196	Kjeldahl Nitrogen	4.84	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417902

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346642	NO2NO3-N	0.475	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346571	Total-P	0.514	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417929

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347209	Total-P	0.910	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P418047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346639	Total Alkalinity	0.772	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P418185

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346570	TDS	3.67	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P418051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346639	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346589	Organic Carbon	1.52	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: A113939
Included Lab Sample IDs: 2346682, 2346683, 2346686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A113940
Included Lab Sample IDs: 2346682, 2346683, 2346686

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114006
Included Lab Sample IDs: 2346684, 2346685, 2346687

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

Reference Method: SM 5310 B-2011
Run ID: A114022
Included Lab Sample IDs: 2346684, 2346685, 2346687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114034
Included Lab Sample IDs: 2346684, 2346685, 2346687

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114057
Included Lab Sample IDs: 2346684, 2346685, 2346687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	98.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A114059
Included Lab Sample IDs: 2346682, 2346683, 2346686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114059
Included Lab Sample IDs: 2346682, 2346683, 2346686

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114142
Included Lab Sample IDs: 2346682, 2346683, 2346686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	99.0	101	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	99.3	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114262
Included Lab Sample IDs: 2346684, 2346685, 2346687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	96.8	P/P	90 - 110
Kjeldahl Nitrogen	98.8	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
DEP SOP: NU-094-1	Color (true)	102				1.18	
EPA 180.1 Rev. 2.0	Turbidity	96.3				0.314	
EPA 300.0 Rev. 2.1	Chloride	98.6	97.4	98.3		0.430	
	Sulfate	98.4	96.9	99.0		2.77	
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	95.8	102			4.05
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103					0.848
	Kjeldahl Nitrogen	104	114	106			4.84
EPA 353.2 Rev. 2.0	NO2NO3-N	103	105	106			0.475
EPA 365.1 Rev. 2.0	Total-P	105	104	104			0.514
	Total-P	106	106	105			0.910
SM 2320 B-2011	Total Alkalinity	100				0.772	
SM 2540 C-2011	TDS					3.67	
SM 4500-F- C-2011	Fluoride	101	100	100			0.0
SM 5310 B-2011	Organic Carbon	96.6	96.4	98.6			1.52

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2346682, 2346683, 2346686
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2346682, 2346683, 2346686
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2346682, 2346683, 2346686
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2346682, 2346683, 2346686
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2346684, 2346685, 2346687
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2346684, 2346685, 2346687
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2346684, 2346685, 2346687
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2346684, 2346685, 2346687
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2346682, 2346683, 2346686
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2346682, 2346683, 2346686
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2346682, 2346683, 2346686
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2346682, 2346683, 2346686
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2346684, 2346685, 2346687

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	08/05/2022			08/05/2022 15:31	Samantha L Bates	2346682
	08/05/2022			08/05/2022 15:32	Samantha L Bates	2346683, 2346686
EPA 180.1 Rev. 2.0	08/05/2022			08/05/2022 14:58	Khloe J Berg	2346682
	08/05/2022			08/05/2022 14:59	Khloe J Berg	2346683
	08/05/2022			08/05/2022 15:00	Khloe J Berg	2346686
EPA 300.0 Rev. 2.1	08/05/2022			08/16/2022 13:49	Anna M. Plaviak	2346682
	08/05/2022			08/16/2022 17:01	Anna M. Plaviak	2346683
	08/05/2022			08/16/2022 17:13	Anna M. Plaviak	2346686
EPA 350.1 Rev. 2.0	08/05/2022			08/12/2022 11:52	Judith K. Clark	2346684
	08/05/2022			08/12/2022 11:56	Judith K. Clark	2346685
	08/05/2022			08/12/2022 11:58	Judith K. Clark	2346687
EPA 351.2 Rev. 2.0	08/05/2022	08/19/2022 10:09	Samantha L Bates	08/22/2022 11:52	Alexandra J Mattheus	2346684
	08/05/2022	08/19/2022 10:09	Samantha L Bates	08/22/2022 11:57	Alexandra J Mattheus	2346685
	08/05/2022	08/19/2022 10:09	Samantha L Bates	08/22/2022 12:02	Alexandra J Mattheus	2346687
EPA 353.2 Rev. 2.0	08/05/2022			08/10/2022 10:40	Judith K. Clark	2346684
	08/05/2022			08/10/2022 10:41	Judith K. Clark	2346685
	08/05/2022			08/10/2022 10:42	Judith K. Clark	2346687
EPA 365.1 Rev. 2.0	08/05/2022	08/10/2022 16:53	Adam P Silver	08/11/2022 12:11	James L Waggerby	2346684
	08/05/2022	08/10/2022 16:53	Adam P Silver	08/11/2022 12:20	James L Waggerby	2346685
	08/05/2022	08/10/2022 16:53	Adam P Silver	08/11/2022 12:21	James L Waggerby	2346687
SM 2320 B-2011	08/05/2022			08/12/2022 10:53	Dale L. Simmons	2346682
	08/05/2022			08/12/2022 11:07	Dale L. Simmons	2346683
	08/05/2022			08/12/2022 11:21	Dale L. Simmons	2346686
SM 2540 C-2011	08/05/2022			08/09/2022 15:22	Yijie Li	2346682, 2346683, 2346686
SM 2540 D-2011	08/05/2022			08/09/2022 15:22	Yijie Li	2346682, 2346683, 2346686
SM 4500-F- C-2011	08/05/2022			08/12/2022 10:53	Dale L. Simmons	2346682
	08/05/2022			08/12/2022 11:07	Dale L. Simmons	2346683
	08/05/2022			08/12/2022 11:21	Dale L. Simmons	2346686
SM 5310 B-2011	08/05/2022			08/10/2022 19:38	Khloe J Berg	2346684
	08/05/2022			08/10/2022 19:53	Khloe J Berg	2346685
	08/05/2022			08/10/2022 20:08	Khloe J Berg	2346687