

Chemical Analysis Report

CEN-DIST-2022-04-20-01

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

Event Description: **Run 22**
Request ID: **RQ-2022-04-18-23**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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3319 Maguire Blvd., Suite 232
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Certified by: Colin Wright, Program Administrator

Date Certified: 09-MAY-2022 11:05

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: Double Run Spring Run DS of Double Run Rd Collection Date/Time: 04/19/2022 10:49

Field ID: G1CE0122

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320637	DEP SOP: NU-094-1	Color (true)**	17		PCU	P412745	
	EPA 180.1 Rev. 2.0	Turbidity	0.20	I	NTU	P412644	
	EPA 300.0 Rev. 2.1	Chloride	10	A	mg Cl/L	P413117	
		Sulfate	17	A	mg SO4/L	P413120	
	SM 2320 B-2011	Total Alkalinity	55		mg CaCO3/L	P413183	
	SM 2540 C-2011	TDS	125	A	mg/L	P413194	
	SM 2540 D-2011	TSS	2	UA	mg/L	P413197	
	SM 4500-F- C-2011	Fluoride	0.051	I	mg F/L	P413188	
2320638	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P413070	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.22		mg N/L	P413094	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.5		mg N/L	P412840	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P412895	
	SM 5310 B-2011	Organic Carbon	2.9		mg C/L	P412814	

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: Big Creek @ Lake Nellie Rd

Collection Date/Time: 04/19/2022 12:07

Field ID: G1CE0117

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320639	DEP SOP: NU-094-1	Color (true)**	360		PCU	P412748	
	EPA 180.1 Rev. 2.0	Turbidity	0.70	I	NTU	P412644	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P413117	
		Sulfate	0.20	U	mg SO4/L	P413120	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P413183	
	SM 2540 C-2011	TDS	92		mg/L	P413194	
	SM 2540 D-2011	TSS	2	I	mg/L	P413197	
	SM 4500-F- C-2011	Fluoride	0.058	I	mg F/L	P413188	
2320640	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P413070	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P413130	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P412841	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P412895	
	SM 5310 B-2011	Organic Carbon	36		mg C/L	P412814	

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: P412745

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P412748

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412644

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413117

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413120

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413094

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413130

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412840

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412841

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412895

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

Reference Method: SM 2320 B-2011
Batch ID: P413183

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

Reference Method: SM 2540 C-2011
Batch ID: P413194

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413197

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P412814

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: P412745

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.8		P	85 - 115

Reference Method: DEP SOP: NU-094-1
Batch ID: P412748

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412644

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413117

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: P413120

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413094

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413130

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412840

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412895

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

Reference Method: SM 2320 B-2011
Batch ID: P413183

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.9		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P412814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413117

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320637	Chloride	98.1		P	90 - 110
2320700	Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320637	Sulfate	92.3		P	90 - 110
2320700	Sulfate	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322208	Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320368	Kjeldahl Nitrogen	102	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412840

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320600	NO2NO3-N	94.4	94.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320661	NO2NO3-N	95.5	95.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412895

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320661	Total-P	107	108	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321325	Fluoride	103	102	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P412814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320368	Organic Carbon	94.1	95.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P412745

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320400	Color (true)	0.665	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P412748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320865	Color (true)	0.658	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320363	Turbidity	2.99	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320637	Chloride	1.55	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320637	Sulfate	0.337	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322208	Ammonia-N	0.800	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320130	Kjeldahl Nitrogen	9.97	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320368	Kjeldahl Nitrogen	2.10	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320600	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320661	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412895

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320661	Total-P	0.487	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P413183

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321325	Total Alkalinity	0.129	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P413194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320637	TDS	3.20	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321325	Fluoride	0.960	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P412814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320368	Organic Carbon	1.44	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: A111579

Included Lab Sample IDs: 2320637, 2320639

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

Reference Method: DEP SOP: NU-094-1

Run ID: A111623

Included Lab Sample IDs: 2320637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115

Reference Method: DEP SOP: NU-094-1

Run ID: A111624

Included Lab Sample IDs: 2320639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115

Reference Method: SM 5310 B-2011

Run ID: A111659

Included Lab Sample IDs: 2320638, 2320640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.2	P/P	90 - 110
Organic Carbon	97.2	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111666

Included Lab Sample IDs: 2320638, 2320640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	96.5	P/P	90 - 110
NO2NO3-N	98.5	97.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111715

Included Lab Sample IDs: 2320637, 2320639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.0	99.6	P/P	90 - 110
Sulfate	99.2	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111765

Included Lab Sample IDs: 2320638, 2320640

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A111826

Included Lab Sample IDs: 2320637, 2320639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	97.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A111826

Included Lab Sample IDs: 2320637, 2320639

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111862

Included Lab Sample IDs: 2320638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.3	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111864

Included Lab Sample IDs: 2320638, 2320640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111911

Included Lab Sample IDs: 2320640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	105	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		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	99.8				0.665	
	Color (true)	101				0.658	
EPA 180.1 Rev. 2.0	Turbidity	95.9				2.99	
EPA 300.0 Rev. 2.1	Chloride	98.6	98.1	98.4		1.55	
	Sulfate	98.1	92.3	97.2		0.337	
EPA 350.1 Rev. 2.0	Ammonia-N	95.6	99.6	100			0.800
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.9					9.97
	Kjeldahl Nitrogen	101	102	99.4			2.10
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	94.4	94.4			0.0
	NO2NO3-N	97.5	95.5	95.5			0.0
EPA 365.1 Rev. 2.0	Total-P	104	107	108			0.487
SM 2320 B-2011	Total Alkalinity	95.9				0.129	
SM 2540 C-2011	TDS					3.20	
SM 4500-F- C-2011	Fluoride	102	103	102			0.960
SM 5310 B-2011	Organic Carbon	94.0	94.1	95.7			1.44

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2320637, 2320639
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2320637, 2320639
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2320637, 2320639
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2320637, 2320639
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2320638, 2320640
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2320638, 2320640
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2320638, 2320640
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2320638, 2320640
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2320637, 2320639
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2320637, 2320639
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2320637, 2320639
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2320637, 2320639
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2320638, 2320640

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	04/20/2022			04/20/2022 12:27	Blanca Fach	2320637
	04/20/2022			04/20/2022 16:28	Blanca Fach	2320639
EPA 180.1 Rev. 2.0	04/20/2022			04/20/2022 13:11	Anna M. Plaviak	2320637
	04/20/2022			04/20/2022 13:12	Anna M. Plaviak	2320639
EPA 300.0 Rev. 2.1	04/20/2022			04/27/2022 11:56	James L Waggeberby	2320637
	04/20/2022			04/27/2022 13:08	James L Waggeberby	2320639
EPA 350.1 Rev. 2.0	04/20/2022			04/28/2022 15:02	Judith K. Clark	2320638
	04/20/2022			04/28/2022 15:04	Judith K. Clark	2320640
EPA 351.2 Rev. 2.0	04/20/2022	04/29/2022 09:35	Samantha L Bates	05/02/2022 16:09	Alexandra J Mattheus	2320638
	04/20/2022	05/02/2022 16:54	Samantha L Bates	05/04/2022 13:13	Samantha L Bates	2320640
EPA 353.2 Rev. 2.0	04/20/2022			04/25/2022 11:21	Beverly Y. Sanders	2320640
	04/20/2022			04/25/2022 11:57	Beverly Y. Sanders	2320638
EPA 365.1 Rev. 2.0	04/20/2022	04/27/2022 15:50	Simonne.V. Calhoun	04/29/2022 16:49	James L Waggeberby	2320638
	04/20/2022	04/27/2022 15:50	Simonne.V. Calhoun	04/29/2022 16:50	James L Waggeberby	2320640
SM 2320 B-2011	04/20/2022			04/30/2022 13:27	Dale L. Simmons	2320637
	04/20/2022			04/30/2022 13:34	Dale L. Simmons	2320639
SM 2540 C-2011	04/20/2022			04/22/2022 15:36	Yijie Li	2320637, 2320639
SM 2540 D-2011	04/20/2022			04/22/2022 15:36	Yijie Li	2320637, 2320639
SM 4500-F- C-2011	04/20/2022			04/30/2022 13:27	Dale L. Simmons	2320637
	04/20/2022			04/30/2022 13:34	Dale L. Simmons	2320639
SM 5310 B-2011	04/20/2022			04/22/2022 20:56	Khloe J Berg	2320638
	04/20/2022			04/22/2022 21:43	Khloe J Berg	2320640