

Chemical Analysis Report

CEN-DIST-2021-08-10-02

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

Event Description: **Minnie/Alma/Coon/Center**
Request ID: **RQ-2021-06-28-16**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection

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Date Certified: 02-SEP-2021 11:00



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: Lake Center @ Center

Collection Date/Time: 08/09/2021 14:17

Field ID: G4CE0163

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2268370	EPA 180.1 Rev. 2.0	Turbidity	9.8		NTU	P402283	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P402550	
		Sulfate	11		mg SO4/L	P402927	
	SM 2120 B-2011	Color (true)	390		PCU	P402285	
	SM 2320 B-2011	Total Alkalinity	1.9	I	mg CaCO3/L	P402370	
	SM 2540 C-2011	TDS	124		mg/L	P402570	
	SM 2540 D-2011	TSS	4	I	mg/L	P402575	
	SM 4500 F-C-2011	Fluoride	0.050	I	mg F/L	P402623	
2268372	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P402457	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P402964	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.068		mg N/L	P402300	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P402404	
	SM 5310 B-2011	Organic Carbon	31		mg C/L	P402992	
2268374	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.013		mg P/L	P402279	

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: Coon Lake @ Center

Collection Date/Time: 08/09/2021 14:34

Field ID: G4CE0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2268371	EPA 180.1 Rev. 2.0	Turbidity	5.3		NTU	P402283	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P402550	
		Sulfate	9.7		mg SO4/L	P402552	
		Color (true)	290		PCU	P402286	
	SM 2320 B-2011	Total Alkalinity	3.3		mg CaCO3/L	P402370	
	SM 2540 C-2011	TDS	115		mg/L	P402570	
	SM 2540 D-2011	TSS	2	I	mg/L	P402575	
	SM 4500 F-C-2011	Fluoride	0.048	I	mg F/L	P402623	
2268373	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P402457	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P402964	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.027		mg N/L	P402300	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P402404	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P402992	
2268375	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P402279	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P402283

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402550

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402552

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402927

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402457

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402964

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402300

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402404

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402279

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P402285

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B-2011
Batch ID: P402286

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P402370

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

Reference Method: SM 2540 C-2011
Batch ID: P402570

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P402575

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P402623

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P402992

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402550

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402552

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402927

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402457

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402964

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402300

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402404

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	109		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402279

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

Reference Method: SM 2120 B-2011
Batch ID: P402285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.5		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B-2011
Batch ID: P402286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P402370

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P402623

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P402992

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268349	Chloride	96.3		P	90 - 110
2268421	Chloride	99.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268421	Sulfate	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2269094	Sulfate	101		P	90 - 110
2269240	Sulfate	96.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402457

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268353	Ammonia-N	100	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268390	NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268373	Total-P	109	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268375	O-Phosphate-P	99.3	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P402623

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268224	Fluoride	99.1	98.6	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P402992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268329	Organic Carbon	97.8	94.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P402283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268355	Turbidity	0.417	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268349	Chloride	0.488	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268349	Sulfate	0.910	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2269240	Sulfate	0.446	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268353	Ammonia-N	0.172	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268372	Kjeldahl Nitrogen	0.878	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402300

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268390	NO2NO3-N	0.501	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268373	Total-P	1.21	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402279

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268375	O-Phosphate-P	1.14	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P402285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268328	Color (true)	0.960	Sample	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P402286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268331	Color (true)	0.751	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P402370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268226	Total Alkalinity	0.486	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P402570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268226	TDS	2.20	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P402623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268224	Fluoride	0.479	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P402992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268329	Organic Carbon	2.34	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A107156

Included Lab Sample IDs: 2268374, 2268375

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	99.5	P/P	90 - 110
O-Phosphate-P	99.5	98.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107157

Included Lab Sample IDs: 2268370, 2268371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	101	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A107158

Included Lab Sample IDs: 2268370, 2268371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107169

Included Lab Sample IDs: 2268372, 2268373

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

Reference Method: SM 2320 B-2011

Run ID: A107204

Included Lab Sample IDs: 2268370, 2268371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.2	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107243

Included Lab Sample IDs: 2268372, 2268373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.5	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107257

Included Lab Sample IDs: 2268372

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107281

Included Lab Sample IDs: 2268373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107288

Included Lab Sample IDs: 2268370, 2268371

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

Reference Method: SM 4500 F-C-2011

Run ID: A107310

Included Lab Sample IDs: 2268370, 2268371

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107449

Included Lab Sample IDs: 2268370

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

Reference Method: SM 5310 B-2011

Run ID: A107473

Included Lab Sample IDs: 2268372, 2268373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	95.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107494

Included Lab Sample IDs: 2268372, 2268373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	101	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					0.417	
EPA 300.0 Rev. 2.1	Chloride	100	96.3	99.1		0.488	
	Sulfate	101	101			0.910	
	Sulfate	102	96.1	101		0.446	
	Ammonia-N	99.8	100	99.8			0.172
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106					0.878
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	100	99.5			0.501
EPA 365.1 Rev. 2.0	Total-P	109	109	108			1.21
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.9	99.3	98.1			1.14
SM 2120 B-2011	Color (true)	99.5				0.960	
	Color (true)	100				0.751	
SM 2320 B-2011	Total Alkalinity	102				0.486	
SM 2540 C-2011	TDS					2.20	
SM 4500 F-C-2011	Fluoride	99.9	99.1	98.6			0.479
SM 5310 B-2011	Organic Carbon	96.4	97.8	94.0			2.34

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2268370, 2268371
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2268370, 2268371
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2268370, 2268371
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2268372, 2268373
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2268372, 2268373
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2268372, 2268373
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2268372, 2268373
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2268374, 2268375
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2268370, 2268371
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2268370, 2268371
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2268370, 2268371
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2268370, 2268371
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2268370, 2268371
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2268372, 2268373

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	08/10/2021			08/10/2021 15:49	Sarah A Nixon	2268370, 2268371
EPA 300.0 Rev. 2.1	08/10/2021			08/17/2021 01:55	Lipi Saha	2268370
	08/10/2021			08/17/2021 02:07	Lipi Saha	2268371
	08/10/2021			08/24/2021 01:24	Lipi Saha	2268370
EPA 350.1 Rev. 2.0	08/10/2021			08/13/2021 12:38	Ping Hua	2268372
	08/10/2021			08/13/2021 12:39	Ping Hua	2268373
EPA 351.2 Rev. 2.0	08/10/2021	08/25/2021 13:54	Benjamin T. Nordmann	08/26/2021 11:19	Virginia P. Brown	2268372
	08/10/2021	08/25/2021 13:54	Benjamin T. Nordmann	08/26/2021 11:23	Virginia P. Brown	2268373
EPA 353.2 Rev. 2.0	08/10/2021			08/11/2021 10:08	Beverly Y. Sanders	2268372
	08/10/2021			08/11/2021 10:09	Beverly Y. Sanders	2268373
EPA 365.1 Rev. 2.0	08/10/2021	08/12/2021 15:49	Simonne.V. Calhoun	08/13/2021 18:13	Shengyu Ding	2268372
	08/10/2021	08/12/2021 15:49	Simonne.V. Calhoun	08/16/2021 09:52	Shengyu Ding	2268373
EPA 365.1 Rev. 2.0 dissolved	08/10/2021			08/10/2021 15:51	Patrick M. Roche	2268375
	08/10/2021			08/10/2021 15:58	Patrick M. Roche	2268374
SM 2120 B-2011	08/10/2021			08/10/2021 16:49	Sarah A Nixon	2268370
	08/10/2021			08/10/2021 16:52	Sarah A Nixon	2268371
SM 2320 B-2011	08/10/2021			08/11/2021 23:47	Dale L. Simmons	2268370
	08/10/2021			08/11/2021 23:56	Dale L. Simmons	2268371
SM 2540 C-2011	08/10/2021			08/11/2021 14:58	Yijie Li	2268370, 2268371
SM 2540 D-2011	08/10/2021			08/11/2021 14:58	Yijie Li	2268370, 2268371
SM 4500 F-C-2011	08/10/2021			08/18/2021 04:18	Dale L. Simmons	2268370
	08/10/2021			08/18/2021 04:24	Dale L. Simmons	2268371
SM 5310 B-2011	08/10/2021			08/24/2021 00:18	Madeline Gruver	2268372
	08/10/2021			08/24/2021 00:28	Madeline Gruver	2268373