

Chemical Analysis Report

CEN-DIST-2021-09-15-02

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

Event Description: **Adelaide/Florida**
Request ID: **RQ-2021-09-06-15**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matt Bearden

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

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 08-OCT-2021 10:29



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 Adelaide @ Center

Collection Date/Time: 09/14/2021 10:40

Field ID: G2CE0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2276217	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P403787	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P403908	
		Sulfate	7.0		mg SO4/L	P403909	
	SM 2120 B-2011	Color (true)	72		PCU	P403788	
	SM 2320 B-2011	Total Alkalinity	41		mg CaCO3/L	P403859	
	SM 2540 C-2011	TDS	108		mg/L	P404174	
	SM 2540 D-2011	TSS	6	I	mg/L	P404002	
	SM 4500 F-C-2011	Fluoride	0.070	I	mg F/L	P403861	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P403923	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P403936	
2276218	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P403916	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P403893	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P403961	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	I	mg P/L	P403779	
	dissolved						

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: Lake Florida @ Center of Lake

Collection Date/Time: 09/14/2021 11:12

Field ID: G2CE0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2276214	EPA 180.1 Rev. 2.0	Turbidity	2.7	A	NTU	P403787	
	EPA 300.0 Rev. 2.1	Chloride	13	A	mg Cl/L	P403908	
		Sulfate	5.2	A	mg SO4/L	P403909	
	SM 2120 B-2011	Color (true)	92		PCU	P403788	
	SM 2320 B-2011	Total Alkalinity	42		mg CaCO3/L	P403859	
	SM 2540 C-2011	TDS	107		mg/L	P404174	
	SM 2540 D-2011	TSS	6	I	mg/L	P404002	
	SM 4500 F-C-2011	Fluoride	0.071	I	mg F/L	P403861	
2276215	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P403923	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P403936	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P403915	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P403893	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P403961	
2276216	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P403779	

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: EPA 180.1 Rev. 2.0
Batch ID: P403787

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403908

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403909

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403923

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403936

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403915

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403916

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403893

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403779

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: P403788

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P403859

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

Reference Method: SM 2540 C-2011
Batch ID: P404174

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P404002

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P403861

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P403961

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: P403908

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403923

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403893

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403779

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.7		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P403788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P403859

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

Reference Method: SM 4500 F-C-2011
Batch ID: P403861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P403961

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276214	Chloride	96.5		P	90 - 110
2276268	Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276214	Sulfate	97.3		P	90 - 110
2276268	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403923

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276073	Ammonia-N	95.0	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276254	Kjeldahl Nitrogen	101	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276137	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276218	NO2NO3-N	104	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403893

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2275135	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403779

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276138	O-Phosphate-P	97.6	99.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P403861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276072	Fluoride	99.1	98.6	P/P	92 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P403961

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276269	Organic Carbon	96.2	97.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P403787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276214	Turbidity	12.9	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276214	Chloride	0.389	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276214	Sulfate	0.678	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276073	Ammonia-N	0.201	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276254	Kjeldahl Nitrogen	1.67	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276137	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276218	NO2NO3-N	1.43	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403893

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2275135	Total-P	0.181	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P403779

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276138	O-Phosphate-P	1.93	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
 Batch ID: P403788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2275912	Color (true)	1.30	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P403859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276072	Total Alkalinity	1.27	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
 Batch ID: P404174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2275749	TDS	8.26	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P403861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276072	Fluoride	0.469	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
 Batch ID: P403961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276269	Organic Carbon	0.594	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107789

Included Lab Sample IDs: 2276214, 2276217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.7	101	P/P	90 - 110
Sulfate	99.7	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A107808

Included Lab Sample IDs: 2276216, 2276219

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107812

Included Lab Sample IDs: 2276214, 2276217

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

Reference Method: SM 2120 B-2011

Run ID: A107813

Included Lab Sample IDs: 2276214, 2276217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.3	99.8	P/P	90 - 115

Reference Method: SM 2320 B-2011

Run ID: A107847

Included Lab Sample IDs: 2276214, 2276217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	103	P/P	90 - 110
Total Alkalinity	102	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A107847

Included Lab Sample IDs: 2276214, 2276217

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107882

Included Lab Sample IDs: 2276215, 2276218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	105	P/P	90 - 110
NO2NO3-N	105	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107885

Included Lab Sample IDs: 2276215, 2276218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	96.6	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A107898

Included Lab Sample IDs: 2276215, 2276218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.9	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107901

Included Lab Sample IDs: 2276218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	107	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107904

Included Lab Sample IDs: 2276215

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107906

Included Lab Sample IDs: 2276215, 2276218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.0	98.0	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				12.9	
EPA 300.0 Rev. 2.1	Chloride	98.1	96.5	97.1	0.389	
	Sulfate	97.9	97.3	98.3	0.678	
EPA 350.1 Rev. 2.0	Ammonia-N	96.4	95.0	95.2		0.201
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.8	101	103		1.67
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104		0.0
	NO2NO3-N	104	104	106		1.43
EPA 365.1 Rev. 2.0	Total-P	103	105	105		0.181
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7	97.6	99.5		1.93
SM 2120 B-2011	Color (true)	99.3			1.30	
SM 2320 B-2011	Total Alkalinity	102			1.27	
SM 2540 C-2011	TDS				8.26	
SM 4500 F-C-2011	Fluoride	100	99.1	98.6		0.469
SM 5310 B-2011	Organic Carbon	98.0	96.2	97.3		0.594

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2276214, 2276217
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2276214, 2276217
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2276214, 2276217
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2276215, 2276218
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2276215, 2276218
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2276215, 2276218
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2276215, 2276218
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2276216, 2276219
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2276214, 2276217
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2276214, 2276217
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2276214, 2276217
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2276214, 2276217
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2276214, 2276217
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2276215, 2276218

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	09/15/2021			09/15/2021 15:10	Sarah A Nixon	2276214, 2276217
EPA 300.0 Rev. 2.1	09/15/2021			09/17/2021 13:32	Roberta Tatti	2276214
	09/15/2021			09/17/2021 14:21	Roberta Tatti	2276217
EPA 350.1 Rev. 2.0	09/15/2021			09/20/2021 13:07	Ping Hua	2276215
	09/15/2021			09/20/2021 13:09	Ping Hua	2276218
EPA 351.2 Rev. 2.0	09/15/2021	09/20/2021 17:00	Benjamin T. Nordmann	09/21/2021 13:17	Alexandra J Mattheus	2276215
	09/15/2021	09/20/2021 17:00	Benjamin T. Nordmann	09/21/2021 13:19	Alexandra J Mattheus	2276218
EPA 353.2 Rev. 2.0	09/15/2021			09/20/2021 10:42	Beverly Y. Sanders	2276215
	09/15/2021			09/20/2021 10:49	Beverly Y. Sanders	2276218
EPA 365.1 Rev. 2.0	09/15/2021	09/16/2021 16:36	Simonne.V. Calhoun	09/20/2021 11:35	Virginia P. Brown	2276215
	09/15/2021	09/16/2021 16:36	Simonne.V. Calhoun	09/20/2021 16:53	Virginia P. Brown	2276218
EPA 365.1 Rev. 2.0 dissolved	09/15/2021			09/15/2021 14:17	James L Waggeberby	2276216
	09/15/2021			09/15/2021 14:18	James L Waggeberby	2276219
SM 2120 B-2011	09/15/2021			09/15/2021 15:59	Sarah A Nixon	2276214, 2276217
SM 2320 B-2011	09/15/2021			09/16/2021 18:42	Dale L. Simmons	2276214
	09/15/2021			09/16/2021 19:32	Dale L. Simmons	2276217
SM 2540 C-2011	09/15/2021			09/16/2021 15:25	Yijie Li	2276214, 2276217
SM 2540 D-2011	09/15/2021			09/16/2021 15:25	Yijie Li	2276214, 2276217
SM 4500 F-C-2011	09/15/2021			09/16/2021 18:42	Dale L. Simmons	2276214
	09/15/2021			09/16/2021 19:32	Dale L. Simmons	2276217
SM 5310 B-2011	09/15/2021			09/20/2021 20:10	Madeline Gruver	2276215
	09/15/2021			09/20/2021 20:23	Madeline Gruver	2276218