

Chemical Analysis Report

BSSP-2021-09-02-01

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

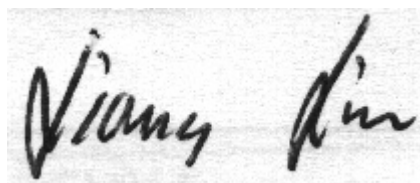
Event Description: **Reference Lake Sampling**
Request ID: **RQ-2021-08-16-17**
Customer: **BSSP**
Project ID: **LAKESREF**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 27-SEP-2021 14:04

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored 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 groups are included in this report: Metals and 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 Iamonia LVI

Collection Date/Time: 09/02/2021 14:30

Field ID: Lake Iamonia

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2273366	EPA 300.0 Rev. 2.1	Chloride	4.3		mg Cl/L	P403499	
		Sulfate	0.20	U	mg SO4/L	P403500	
	SM 2120 B-2011	Color (true)	80		PCU	P403371	
	SM 2320 B-2011	Total Alkalinity	5.3		mg CaCO3/L	P403580	
	SM 4500 F-C-2011	Fluoride	0.044	I	mg F/L	P403582	
2273367	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P403421	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P403449	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P403350	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P403427	
2273368	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P403374	
2273371	EPA 200.7 Rev. 4.4	Calcium	2.61		mg/L	P403412	
		Iron	240		ug/L	P403412	
		Magnesium	1.27		mg/L	P403412	
		Potassium	0.39	I	mg/L	P403412	
		Sodium	1.5	I	mg/L	P403412	
		Zinc	5.0	U	ug/L	P403412	
	EPA 200.8 Rev. 5.4	Arsenic	0.26		ug/L	P403412	
		Beryllium	0.010	U	ug/L	P403412	
		Cadmium	0.020	U	ug/L	P403412	
		Chromium	0.40	U	ug/L	P403412	
		Copper	0.40	U	ug/L	P403412	
		Lead	0.20	U	ug/L	P403412	
		Nickel	0.50	U	ug/L	P403412	
		Silver	0.010	U	ug/L	P403412	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: 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 and relative percent difference are unavailable because of analytical difficulties.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries and relative percent difference are unavailable because of analytical difficulties.

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P403412

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P403412

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403499

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403500

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403421

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403449

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403350

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403427

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403374

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

Reference Method: SM 2120 B-2011
Batch ID: P403371

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P403580

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

Reference Method: SM 4500 F-C-2011
Batch ID: P403582

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P403412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	111		P	85 - 115
Iron	109		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	103		P	85 - 115
Sodium	100		P	85 - 115
Zinc	108		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P403412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	98.2		P	85 - 115
Beryllium	96.1		P	85 - 115
Cadmium	94.9		P	85 - 115
Chromium	96.8		P	85 - 115
Copper	97.8		P	85 - 115
Lead	94.8		P	85 - 115
Nickel	99.2		P	85 - 115
Silver	96.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403499

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403500

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403421

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403449

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403350

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403427

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403374

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.4		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P403371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P403580

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

Reference Method: SM 4500 F-C-2011
Batch ID: P403582

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	93 - 104

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P403412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273371	Calcium	111	108	P/P	80 - 120
2273371	Iron	111	110	P/P	80 - 120
2273371	Magnesium	113	112	P/P	80 - 120
2273371	Potassium	103	101	P/P	80 - 120
2273371	Sodium	104	103	P/P	80 - 120
2273371	Zinc	113	113	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P403412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273371	Arsenic	97.7	94.7	P/P	80 - 120
2273371	Beryllium	95.9	99.3	P/P	80 - 120
2273371	Cadmium	97.0	97.0	P/P	80 - 120
2273371	Chromium	99.0	97.1	P/P	80 - 120
2273371	Copper	107	95.7	P/P	80 - 120
2273371	Lead	97.1	95.0	P/P	80 - 120
2273371	Nickel	98.4	95.4	P/P	80 - 120
2273371	Silver	96.9	96.9	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P403499

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273152	Chloride	99.6		P	90 - 110
2273276	Chloride	99.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P403500

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273152	Sulfate	100		P	90 - 110
2273276	Sulfate	99.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P403421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273358	Ammonia-N	98.2	96.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P403350

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273358	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P403374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273457	O-Phosphate-P	98.5	98.1	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P403582

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2273455	Fluoride	99.0	101	P/P	92 - 107

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P403412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273371	Calcium	1.26	Spike	P	0 - 20
2273371	Iron	0.951	Spike	P	0 - 20
2273371	Magnesium	0.991	Spike	P	0 - 20
2273371	Potassium	1.64	Spike	P	0 - 20
2273371	Sodium	0.550	Spike	P	0 - 20
2273371	Zinc	0.367	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P403412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273371	Arsenic	3.05	Spike	P	0 - 20
2273371	Beryllium	3.45	Spike	P	0 - 20
2273371	Cadmium	0.0135	Spike	P	0 - 20
2273371	Chromium	1.95	Spike	P	0 - 20
2273371	Copper	11.3	Spike	P	0 - 20
2273371	Lead	2.17	Spike	P	0 - 20
2273371	Nickel	3.13	Spike	P	0 - 20
2273371	Silver	0.0246	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P403499

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273152	Chloride	0.969	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P403421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273358	Ammonia-N	1.02	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P403350

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273358	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P403374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273457	O-Phosphate-P	0.407	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P403371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273357	Color (true)	1.89	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P403580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273455	Total Alkalinity	1.27	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P403582

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2273455	Fluoride	1.42	Spike	P	0 - 2.1

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107639

Included Lab Sample IDs: 2273367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	103	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A107643

Included Lab Sample IDs: 2273366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	97.2	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A107645

Included Lab Sample IDs: 2273368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107663

Included Lab Sample IDs: 2273367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107678

Included Lab Sample IDs: 2273367

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A107687

Included Lab Sample IDs: 2273371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	103	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Potassium	97.6	98.0	P/P	90 - 110
Sodium	99.2	99.6	P/P	90 - 110
Zinc	107	108	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107690

Included Lab Sample IDs: 2273366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	99.6	99.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107697

Included Lab Sample IDs: 2273367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A107711

Included Lab Sample IDs: 2273371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	98.7	97.0	P/P	90 - 110
Beryllium	94.9	96.3	P/P	90 - 110
Cadmium	96.1	97.1	P/P	90 - 110
Chromium	95.4	96.7	P/P	90 - 110
Copper	97.2	96.3	P/P	90 - 110
Lead	94.2	93.8	P/P	90 - 110
Nickel	97.5	96.3	P/P	90 - 110
Silver	93.2	93.1	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A107726

Included Lab Sample IDs: 2273366

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

Reference Method: SM 4500 F-C-2011

Run ID: A107726

Included Lab Sample IDs: 2273366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	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		LCS	Precision SMP	MS
EPA 200.7 Rev. 4.4	Calcium	111	111	108			1.26
	Iron	109	111	110			0.951
	Magnesium	111	113	112			0.991
	Potassium	103	103	101			1.64
	Sodium	100	104	103			0.550
	Zinc	108	113	113			0.367
EPA 200.8 Rev. 5.4	Arsenic	98.2	97.7	94.7			3.05
	Beryllium	96.1	95.9	99.3			3.45
	Cadmium	94.9	97.0	97.0			0.0135
	Chromium	96.8	99.0	97.1			1.95
	Copper	97.8	107	95.7			11.3
	Lead	94.8	95.0	97.1			2.17
	Nickel	99.2	98.4	95.4			3.13
	Silver	96.8	96.9	96.9			0.0246
EPA 300.0 Rev. 2.1	Chloride	100	99.6	99.5		0.969	
	Sulfate	100	100	99.9			
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	98.2	96.8			1.02
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103					
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	105					
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	98.5	98.1			0.407
SM 2120 B-2011	Color (true)	99.4				1.89	
SM 2320 B-2011	Total Alkalinity	102				1.27	
SM 4500 F-C-2011	Fluoride	97.4	99.0	101			1.42

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2273371
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2273371
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2273366
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2273366
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2273367
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2273367
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2273367
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2273367
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2273368
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2273366
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2273366
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2273366

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	09/02/2021	09/07/2021 12:00	Elliott D. Healy	09/08/2021 18:39	Josef B Mick	2273371
EPA 200.8 Rev. 5.4	09/02/2021	09/07/2021 12:00	Elliott D. Healy	09/09/2021 13:04	Alexander Thompson	2273371
EPA 300.0 Rev. 2.1	09/02/2021			09/08/2021 18:21	Roberta Tatti	2273366
EPA 350.1 Rev. 2.0	09/02/2021			09/07/2021 13:08	Ping Hua	2273367
EPA 351.2 Rev. 2.0	09/02/2021	09/08/2021 16:15	Benjamin T. Nordmann	09/09/2021 12:25	Alexandra J Mattheus	2273367
EPA 353.2 Rev. 2.0	09/02/2021			09/03/2021 10:24	Beverly Y. Sanders	2273367
EPA 365.1 Rev. 2.0	09/02/2021	09/07/2021 15:50	Simonne.V. Calhoun	09/08/2021 14:59	Lipi Saha	2273367
EPA 365.1 Rev. 2.0 dissolved	09/02/2021			09/03/2021 15:35	James L Waggerby	2273368
SM 2120 B-2011	09/02/2021			09/03/2021 16:14	Benjamin T. Nordmann	2273366
SM 2320 B-2011	09/02/2021			09/09/2021 17:44	Dale L. Simmons	2273366
SM 4500 F-C-2011	09/02/2021			09/09/2021 17:44	Dale L. Simmons	2273366