

Chemical Analysis Report

CEN-DIST-2022-09-08-03

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
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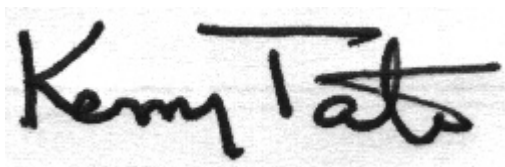
Event Description: **BMAP - Sweetwater and Salt**
Request ID: **RQ-2022-09-05-24**
Customer: **CEN-DIST**
Project ID: **BMAP**

Send Reports to:
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 28-SEP-2022 08:28

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: Sweetwater Creek at Florida Avenue

Collection Date/Time: 09/07/2022 12:04

Field ID: G2CE0123

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355112	DEP SOP: NU-094-1	Color (true)	120		PCU	P419333	
	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P419325	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P419741	
		Sulfate	14		mg SO4/L	P419744	
	SM 2320 B-2011	Total Alkalinity	112	A	mg CaCO3/L	P419620	
	SM 2540 C-2011	TDS	364	A	mg/L	P419659	
	SM 2540 D-2011	TSS	8	IA	mg/L	P419660	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P419622	
2355114	EPA 350.1 Rev. 2.0	Ammonia-N	0.091		mg N/L	P419628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P419517	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P419542	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P419536	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P419560	
2355116	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.094		mg P/L	P419312	

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: Salt Creek @ Packard Ave.

Collection Date/Time: 09/07/2022 11:30

Field ID: G2CE0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355113	DEP SOP: NU-094-1	Color (true)	500		PCU	P419333	
	EPA 180.1 Rev. 2.0	Turbidity	8.6		NTU	P419325	
	EPA 300.0 Rev. 2.1	Chloride	810		mg Cl/L	P419741	
		Sulfate	100		mg SO4/L	P419744	
	SM 2320 B-2011	Total Alkalinity	110		mg CaCO3/L	P419620	
	SM 2540 C-2011	TDS	1.56E+03		mg/L	P419659	
	SM 2540 D-2011	TSS	3	I	mg/L	P419660	
2355115	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P419622	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P419628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P419517	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P419542	
	EPA 365.1 Rev. 2.0	Total-P	0.33		mg P/L	P419536	
2355117	SM 5310 B-2011	Organic Carbon	41		mg C/L	P419560	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.26		mg P/L	P419312	

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: P419333

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419325

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419741

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419542

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419536

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P419312

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P419620

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

Reference Method: SM 2540 C-2011
Batch ID: P419659

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P419660

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419560

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: P419333

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	92.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419325

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419741

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419536

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P419312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.2		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P419620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419560

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: P419741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355036	Chloride	103		P	90 - 110
2355063	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355036	Sulfate	101		P	90 - 110
2355063	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355074	Ammonia-N	96.2	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355037	Kjeldahl Nitrogen	105	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355114	NO2NO3-N	96.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355075	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P419312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2354990	O-Phosphate-P	95.4	95.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355112	Fluoride	99.7	98.5	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355126	Organic Carbon	96.5	96.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P419333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2354954	Color (true)	1.00	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355026	Turbidity	8.53	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355036	Chloride	0.346	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355036	Sulfate	1.07	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355074	Ammonia-N	0.158	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355037	Kjeldahl Nitrogen	1.89	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355114	NO2NO3-N	1.66	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355075	Total-P	0.269	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P419312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2354990	O-Phosphate-P	0.300	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P419620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355112	Total Alkalinity	1.74	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P419659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355112	TDS	3.30	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355112	Fluoride	0.953	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355126	Organic Carbon	0.260	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: A114614

Included Lab Sample IDs: 2355116, 2355117

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.4	98.2	P/P	90 - 110
O-Phosphate-P	98.1	97.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114618

Included Lab Sample IDs: 2355112, 2355113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A114621

Included Lab Sample IDs: 2355112, 2355113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	93.5	94.9	P/P	90 - 110
Color (true)	93.7	92.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114711

Included Lab Sample IDs: 2355114, 2355115

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

Reference Method: SM 5310 B-2011

Run ID: A114720

Included Lab Sample IDs: 2355114, 2355115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.3	96.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114739

Included Lab Sample IDs: 2355112, 2355113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	97.0	P/P	90 - 110
Total Alkalinity	97.7	102	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114739

Included Lab Sample IDs: 2355112, 2355113

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114744

Included Lab Sample IDs: 2355114, 2355115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114750

Included Lab Sample IDs: 2355114, 2355115

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114752

Included Lab Sample IDs: 2355114, 2355115

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114789

Included Lab Sample IDs: 2355112, 2355113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	103	P/P	90 - 110
Sulfate	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		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	92.3			1.00	
EPA 180.1 Rev. 2.0	Turbidity	96.4			8.53	
EPA 300.0 Rev. 2.1	Chloride	102	103	101	0.346	
	Sulfate	100	101	100	1.07	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	96.2	96.4		0.158
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	105	108		1.89
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	96.5	99.0		1.66
EPA 365.1 Rev. 2.0	Total-P	104	103	104		0.269
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	95.4	95.7		0.300
SM 2320 B-2011	Total Alkalinity	98.9			1.74	
SM 2540 C-2011	TDS				3.30	
SM 4500-F- C-2011	Fluoride	99.6	99.7	98.5		0.953
SM 5310 B-2011	Organic Carbon	96.4	96.5	96.0		0.260

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2355112, 2355113
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2355112, 2355113
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2355112, 2355113
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2355112, 2355113
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2355114, 2355115
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2355114, 2355115
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2355114, 2355115
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2355114, 2355115
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2355116, 2355117
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2355112, 2355113
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2355112, 2355113
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2355112, 2355113
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2355112, 2355113
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2355114, 2355115

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	09/08/2022			09/08/2022 15:59	Anna M. Plaviak	2355112
	09/08/2022			09/08/2022 16:19	Anna M. Plaviak	2355113
EPA 180.1 Rev. 2.0	09/08/2022			09/08/2022 13:53	Chandler E Cox	2355112
	09/08/2022			09/08/2022 13:54	Chandler E Cox	2355113
EPA 300.0 Rev. 2.1	09/08/2022			09/15/2022 13:44	Anna M. Plaviak	2355112
	09/08/2022			09/15/2022 13:59	Anna M. Plaviak	2355113
EPA 350.1 Rev. 2.0	09/08/2022			09/14/2022 13:00	Ping Hua	2355114
	09/08/2022			09/14/2022 13:02	Ping Hua	2355115
EPA 351.2 Rev. 2.0	09/08/2022	09/14/2022 13:25	Samantha L Bates	09/15/2022 12:24	Samantha L Bates	2355114
	09/08/2022	09/14/2022 13:25	Samantha L Bates	09/15/2022 12:25	Samantha L Bates	2355115
EPA 353.2 Rev. 2.0	09/08/2022			09/14/2022 09:42	Judith K. Clark	2355114
	09/08/2022			09/14/2022 09:49	Judith K. Clark	2355115
EPA 365.1 Rev. 2.0	09/08/2022	09/14/2022 16:15	Simonne.V. Calhoun	09/15/2022 13:55	Simonne.V. Calhoun	2355114
	09/08/2022	09/14/2022 16:15	Simonne.V. Calhoun	09/15/2022 13:56	Simonne.V. Calhoun	2355115
EPA 365.1 Rev. 2.0 dissolved	09/08/2022			09/08/2022 14:20	James L Waggeberby	2355116
	09/08/2022			09/08/2022 14:27	James L Waggeberby	2355117
SM 2320 B-2011	09/08/2022			09/14/2022 23:23	Dale L. Simmons	2355112
	09/08/2022			09/15/2022 02:01	Dale L. Simmons	2355113
SM 2540 C-2011	09/08/2022			09/09/2022 16:25	Yijie Li	2355112, 2355113
SM 2540 D-2011	09/08/2022			09/09/2022 16:25	Yijie Li	2355112, 2355113
SM 4500-F- C-2011	09/08/2022			09/14/2022 23:12	Dale L. Simmons	2355112
	09/08/2022			09/15/2022 02:01	Dale L. Simmons	2355113
SM 5310 B-2011	09/08/2022			09/14/2022 01:13	Khloe J Berg	2355114
	09/08/2022			09/14/2022 01:27	Khloe J Berg	2355115