Chemical Analysis Report

NE-DIST-2021-12-09-01

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

Event Description: **Nassau North West**
Request ID: **RQ-2021-12-06-28**
Customer: **NE-DIST**
Project ID: **SMP**

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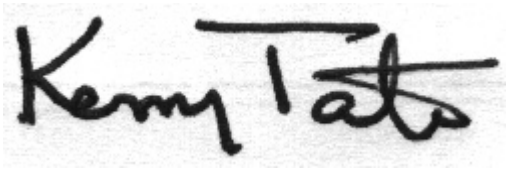
Date Certified: 05-JAN-2022 09:36



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: Moccasin Creek @ Moccasin Creek Cir. E **Collection Date/Time: 12/08/2021 10:50**

Field ID: 19010121 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294281	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P407261	
	EPA 300.0 Rev. 2.1	Chloride	4.8		mg Cl/L	P407526	
		Sulfate	0.20	U	mg SO4/L	P407529	
	SM 2120 B-2011	Color (true)	400		PCU	P407264	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P407452	
	SM 2540 C-2011	TDS	89		mg/L	P407668	
	SM 2540 D-2011	TSS	2	U	mg/L	P407322	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P407453	
2294283	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P407715	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P407871	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P407374	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P407343	
	SM 5310 B-2011	Organic Carbon	42		mg C/L	P407894	
2294285	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P407255	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Calkins CR @ CR 127 **Collection Date/Time: 12/08/2021 11:30**

Field ID: 19010105 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294282	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P407261	
	EPA 300.0 Rev. 2.1	Chloride	7.6		mg Cl/L	P407526	
		Sulfate	0.20	U	mg SO4/L	P407529	
	SM 2120 B-2011	Color (true)	270		PCU	P407264	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P407452	
	SM 2540 C-2011	TDS	97		mg/L	P407448	RPD
	SM 2540 D-2011	TSS	3	I	mg/L	P407322	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P407453	
2294284	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P407715	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P407650	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P407374	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P407343	
	SM 5310 B-2011	Organic Carbon	35		mg C/L	P407894	
2294286	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	I	mg P/L	P407255	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: 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: P407261

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407526

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407529

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407715

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407650

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407871

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407374

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407343

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407255

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: P407264

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P407452

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

Reference Method: SM 2540 C-2011
Batch ID: P407448

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P407668

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P407322

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P407453

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P407894

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: P407526

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407529

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407715

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407650

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407871

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407374

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407343

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407255

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

Reference Method: SM 2120 B-2011
Batch ID: P407264

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P407452

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P407453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P407894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407526

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294304	Chloride	96.5		P	90 - 110
2294454	Chloride	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407529

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294304	Sulfate	95.3		P	90 - 110
2294454	Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407715

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294064	Ammonia-N	99.8	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294296	Kjeldahl Nitrogen	104	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407871

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295066	Kjeldahl Nitrogen	104	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294305	NO2NO3-N	99.2	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407255

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294236	O-Phosphate-P	101	99.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P407453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294582	Fluoride	100	100	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P407894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294456	Organic Carbon	99.4		P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294231	Turbidity	6.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407526

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294304	Chloride	0.557	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294304	Sulfate	1.37	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407715

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294064	Ammonia-N	0.316	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294296	Kjeldahl Nitrogen	0.977	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295066	Kjeldahl Nitrogen	0.977	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294305	NO2NO3-N	0.462	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294305	Total-P	3.19	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407255

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294236	O-Phosphate-P	1.90	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P407264

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294304	Color (true)	2.43	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P407452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294582	Total Alkalinity	1.39	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P407448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294323	TDS	11.4	Sample	F	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P407668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294582	TDS	3.52	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P407453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294582	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P407894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294456	Organic Carbon	0.716	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: A109298
Included Lab Sample IDs: 2294285, 2294286

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	99.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A109300
Included Lab Sample IDs: 2294281, 2294282

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

Reference Method: SM 2120 B-2011
Run ID: A109301
Included Lab Sample IDs: 2294281, 2294282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	100	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A109348
Included Lab Sample IDs: 2294283, 2294284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A109384
Included Lab Sample IDs: 2294281, 2294282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	102	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A109384
Included Lab Sample IDs: 2294281, 2294282

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A109387
Included Lab Sample IDs: 2294281, 2294282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.0	101	P/P	90 - 110
Sulfate	98.9	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A109433
Included Lab Sample IDs: 2294283, 2294284

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A109433
Included Lab Sample IDs: 2294283, 2294284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A109493
Included Lab Sample IDs: 2294283, 2294284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109537
Included Lab Sample IDs: 2294284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.5	98.4	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A109567
Included Lab Sample IDs: 2294283, 2294284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.1	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109610
Included Lab Sample IDs: 2294283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.6	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		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					6.35	
EPA 300.0 Rev. 2.1	Chloride	98.5	96.5	97.5		0.557	
	Sulfate	97.3	95.3	98.1		1.37	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	99.8	99.4			0.316
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	104	106			0.977
	Kjeldahl Nitrogen	108	104	102			0.977
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	99.2	99.6			0.462
EPA 365.1 Rev. 2.0	Total-P	108					3.19
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.9	101	99.0			1.90
SM 2120 B-2011	Color (true)	101				2.43	
SM 2320 B-2011	Total Alkalinity	101				1.39	
SM 2540 C-2011	TDS					11.4	
	TDS					3.52	
SM 4500 F-C-2011	Fluoride	101	100	100			0.0
SM 5310 B-2011	Organic Carbon	98.4	99.4				0.716

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2294281, 2294282
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2294281, 2294282
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2294281, 2294282
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2294283, 2294284
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2294283, 2294284
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2294283, 2294284
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2294283, 2294284
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2294285, 2294286
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2294281, 2294282
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2294281, 2294282
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2294281, 2294282
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2294281, 2294282
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2294281, 2294282
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2294283, 2294284

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	12/09/2021			12/09/2021 15:33	Khloe J Berg	2294281, 2294282
EPA 300.0 Rev. 2.1	12/09/2021			12/15/2021 14:17	Roberta Tatti	2294281
	12/09/2021			12/15/2021 14:57	Roberta Tatti	2294282
EPA 350.1 Rev. 2.0	12/09/2021			12/20/2021 13:22	Ping Hua	2294283
	12/09/2021			12/20/2021 13:23	Ping Hua	2294284
EPA 351.2 Rev. 2.0	12/09/2021	12/20/2021 10:35	Samantha L Bates	12/22/2021 12:56	Alexandra J Mattheus	2294284
	12/09/2021	12/28/2021 11:05	Samantha L Bates	12/29/2021 12:33	Alexandra J Mattheus	2294283
EPA 353.2 Rev. 2.0	12/09/2021			12/13/2021 11:55	Beverly Y. Sanders	2294283
	12/09/2021			12/13/2021 11:56	Beverly Y. Sanders	2294284
EPA 365.1 Rev. 2.0	12/09/2021	12/14/2021 10:43	Simonne.V. Calhoun	12/16/2021 14:11	Shengyu Ding	2294283
	12/09/2021	12/14/2021 10:43	Simonne.V. Calhoun	12/16/2021 14:22	Shengyu Ding	2294284
EPA 365.1 Rev. 2.0 dissolved	12/09/2021			12/09/2021 14:28	James L Waggerby	2294285
	12/09/2021			12/09/2021 14:29	James L Waggerby	2294286
SM 2120 B-2011	12/09/2021			12/09/2021 17:13	Samantha L Bates	2294281
	12/09/2021			12/09/2021 17:14	Samantha L Bates	2294282
SM 2320 B-2011	12/09/2021			12/14/2021 09:55	Sarah A Nixon	2294281
	12/09/2021			12/14/2021 10:02	Sarah A Nixon	2294282
SM 2540 C-2011	12/09/2021			12/10/2021 13:30	Simonne.V. Calhoun	2294282
	12/09/2021			12/14/2021 13:02	Yijie Li	2294281
SM 2540 D-2011	12/09/2021			12/10/2021 13:30	Simonne.V. Calhoun	2294281, 2294282
SM 4500 F-C-2011	12/09/2021			12/14/2021 09:55	Sarah A Nixon	2294281
	12/09/2021			12/14/2021 10:02	Sarah A Nixon	2294282
SM 5310 B-2011	12/09/2021			12/25/2021 23:59	Touraj Touran	2294283
	12/09/2021			12/26/2021 00:11	Touraj Touran	2294284