

Chemical Analysis Report

SO-DIST-2022-02-24-01

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

Event Description: **2022 SMP : Glades Sloughs**
Request ID: **RQ-2022-02-21-46**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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Date Certified: 21-MAR-2022 17:41



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: Gator Slough At US27

Collection Date/Time: 02/23/2022 09:50

Field ID: G4SD0214

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2307880	DEP SOP: NU-094-1	Color (true)**	470		PCU	P410369	
	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P410323	
	EPA 300.0 Rev. 2.1	Chloride	7.6		mg Cl/L	P410516	
		Sulfate	1.6		mg SO4/L	P410517	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P410660	
	SM 2540 C-2011	TDS	108		mg/L	P410775	
	SM 2540 D-2011	TSS	9	I	mg/L	P410804	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410663	
2307882	EPA 350.1 Rev. 2.0	Ammonia-N	0.076		mg N/L	P410628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P410618	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P410666	
	EPA 365.1 Rev. 2.0	Total-P	0.29		mg P/L	P410535	
	SM 5310 B-2011	Organic Carbon	38		mg C/L	P410697	
2307884	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.20		mg P/L	P410319	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: 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 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: JohnHenrySlough AtCR7321

Collection Date/Time: 02/23/2022 10:25

Field ID: G4SD0215

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2307881	DEP SOP: NU-094-1	Color (true)**	59		PCU	P410369	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P410323	
	EPA 300.0 Rev. 2.1	Chloride	520		mg Cl/L	P410516	
		Sulfate	250		mg SO4/L	P410517	
	SM 2320 B-2011	Total Alkalinity	12		mg CaCO3/L	P410660	
	SM 2540 C-2011	TDS	1.16E+03		mg/L	P410775	
	SM 2540 D-2011	TSS	2	I	mg/L	P410804	
2307883	SM 4500 F-C-2011	Fluoride	0.11		mg F/L	P410663	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P410628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P410344	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P410666	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P410535	
2307885	SM 5310 B-2011	Organic Carbon	15		mg C/L	P410697	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.017		mg P/L	P410319	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: 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 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: DEP SOP: NU-094-1
Batch ID: P410369

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410323

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410344

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410618

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410535

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410319

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

Reference Method: SM 2320 B-2011
Batch ID: P410660

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

Reference Method: SM 2540 C-2011
Batch ID: P410775

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P410804

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410663

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410697

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: P410369

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	104		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410323

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410344

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410618

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

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: P410535

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410319

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

Reference Method: SM 2320 B-2011
Batch ID: P410660

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.7		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P410663

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410697

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307923	Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307913	Sulfate	99.4		P	90 - 110
2307923	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307872	Ammonia-N	98.2	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307774	Kjeldahl Nitrogen	93.7	94.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410618

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308819	Kjeldahl Nitrogen	99.0	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307851	NO2NO3-N	99.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410319

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307873	O-Phosphate-P	99.4	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P410663

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307772	Fluoride	94.9	94.4	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307883	Organic Carbon	96.0	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P410369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307915	Color (true)	1.81	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307756	Turbidity	3.64	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307913	Chloride	0.640	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307913	Sulfate	0.689	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307872	Ammonia-N	3.18	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307774	Kjeldahl Nitrogen	0.264	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308819	Kjeldahl Nitrogen	2.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307851	NO2NO3-N	0.487	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P410535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307857	Total-P	0.153	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P410319

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307873	O-Phosphate-P	1.79	Spike	P	0 - 20

Reference Method: SM 2320 B-2011

Batch ID: P410660

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307772	Total Alkalinity	1.80	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011

Batch ID: P410775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307773	TDS	3.17	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011

Batch ID: P410663

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307772	Fluoride	0.498	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011

Batch ID: P410697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307883	Organic Carbon	0.581	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: A110603

Included Lab Sample IDs: 2307884, 2307885

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	97.7	P/P	90 - 110
O-Phosphate-P	100	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110604

Included Lab Sample IDs: 2307880, 2307881

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

Reference Method: DEP SOP: NU-094-1

Run ID: A110629

Included Lab Sample IDs: 2307880, 2307881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	104	106	P/P	85 - 115
Color (true)	107	105	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110693

Included Lab Sample IDs: 2307880, 2307881

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110726

Included Lab Sample IDs: 2307883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.5	97.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110733

Included Lab Sample IDs: 2307882, 2307883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110751

Included Lab Sample IDs: 2307880, 2307881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A110751

Included Lab Sample IDs: 2307880, 2307881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110756

Included Lab Sample IDs: 2307882, 2307883

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

Reference Method: SM 5310 B-2011

Run ID: A110771

Included Lab Sample IDs: 2307882, 2307883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	95.3	P/P	90 - 110
Organic Carbon	95.8	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110797

Included Lab Sample IDs: 2307882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.3	94.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110801

Included Lab Sample IDs: 2307882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110804

Included Lab Sample IDs: 2307883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	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)	104			1.81	
EPA 180.1 Rev. 2.0	Turbidity	97.2			3.64	
EPA 300.0 Rev. 2.1	Chloride	100	98.3		0.640	
	Sulfate	100	99.4	99.0	0.689	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	98.2	102		3.18
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	93.7	94.0		0.264
	Kjeldahl Nitrogen	102	99.0	95.6		2.97
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.8	100		0.487
EPA 365.1 Rev. 2.0	Total-P	107				0.153
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5	99.4	101		1.79
SM 2320 B-2011	Total Alkalinity	95.7			1.80	
SM 2540 C-2011	TDS				3.17	
SM 4500 F-C-2011	Fluoride	98.0	94.9	94.4		0.498
SM 5310 B-2011	Organic Carbon	95.6	96.0	97.0		0.581

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2307880, 2307881
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2307880, 2307881
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2307880, 2307881
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2307880, 2307881
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2307882, 2307883
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2307882, 2307883
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2307882, 2307883
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2307882, 2307883
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2307884, 2307885
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2307880, 2307881
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2307880, 2307881
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2307880, 2307881
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2307880, 2307881
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2307882, 2307883

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	02/24/2022			02/24/2022 16:43	Anna M. Plaviak	2307881
	02/24/2022			02/24/2022 17:06	Anna M. Plaviak	2307880
EPA 180.1 Rev. 2.0	02/24/2022			02/24/2022 18:09	Khloe J Berg	2307880
	02/24/2022			02/24/2022 18:12	Khloe J Berg	2307881
EPA 300.0 Rev. 2.1	02/24/2022			02/28/2022 21:05	James L Waggeberby	2307880
	02/24/2022			02/28/2022 21:17	James L Waggeberby	2307881
EPA 350.1 Rev. 2.0	02/24/2022			03/03/2022 12:29	Ping Hua	2307882
	02/24/2022			03/03/2022 12:30	Ping Hua	2307883
EPA 351.2 Rev. 2.0	02/24/2022	02/28/2022 11:50	Alexandra J Mattheus	03/02/2022 15:31	Alexandra J Mattheus	2307883
	02/24/2022	03/04/2022 09:49	Samantha L Bates	03/07/2022 14:31	Alexandra J Mattheus	2307882
EPA 353.2 Rev. 2.0	02/24/2022			03/03/2022 17:48	Nathaniel J Jones	2307882
	02/24/2022			03/03/2022 17:49	Nathaniel J Jones	2307883
EPA 365.1 Rev. 2.0	02/24/2022	03/04/2022 14:00	Simonne.V. Calhoun	03/07/2022 14:26	Sarah A Nixon	2307882
	02/24/2022	03/04/2022 14:00	Simonne.V. Calhoun	03/07/2022 18:17	Sarah A Nixon	2307883
EPA 365.1 Rev. 2.0 dissolved	02/24/2022			02/24/2022 16:09	James L Waggeberby	2307884
	02/24/2022			02/24/2022 16:58	James L Waggeberby	2307885
SM 2320 B-2011	02/24/2022			03/03/2022 01:13	Dale L. Simmons	2307880
	02/24/2022			03/03/2022 03:53	Dale L. Simmons	2307881
SM 2540 C-2011	02/24/2022			02/28/2022 15:12	Yijie Li	2307880, 2307881
SM 2540 D-2011	02/24/2022			02/28/2022 15:12	Yijie Li	2307880, 2307881
SM 4500 F-C-2011	02/24/2022			03/03/2022 01:13	Dale L. Simmons	2307880
	02/24/2022			03/03/2022 03:53	Dale L. Simmons	2307881
SM 5310 B-2011	02/24/2022			03/04/2022 20:13	Touraj Touran	2307883
	02/24/2022			03/05/2022 00:28	Touraj Touran	2307882