

Chemical Analysis Report

SO-DIST-2020-06-26-03

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

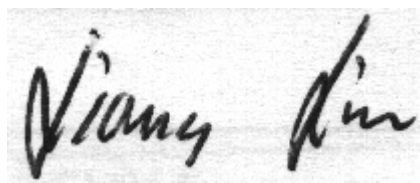
Event Description: **2020 SMP : Canals**
Request ID: **RQ-2020-06-22-41**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 16-JUL-2020 15:44

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 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: C-19 @ US 27

Collection Date/Time: 06/25/2020 11:05

Field ID: G3SD0087

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2178968	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P383752	
	EPA 300.0 Rev. 2.1	Chloride	42		mg Cl/L	P384002	
		Sulfate	20		mg SO4/L	P384004	
	SM 2120 B-2011	Color (true)	150		PCU	P383760	
	SM 2320 B-2011	Total Alkalinity	167		mg CaCO3/L	P383848	
	SM 2540 C-2011	TDS	324		mg/L	P384362	
	SM 2540 D-2011	TSS	7	I	mg/L	P384353	
	SM 4500 F-C-2011	Fluoride	0.33		mg F/L	P383854	
2178970	EPA 350.1 Rev. 2.0	Ammonia-N	1.2		mg N/L	P383773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.1		mg N/L	P383886	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P383913	
	EPA 365.1 Rev. 2.0	Total-P	0.34		mg P/L	P383864	
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P383904	
2178972	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.23		mg P/L	P383775	

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 Hicpochee in Canal

Collection Date/Time: 06/25/2020 11:45

Field ID: G3SD0102

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2178969	EPA 180.1 Rev. 2.0	Turbidity	6.0	A	NTU	P383753	
	EPA 300.0 Rev. 2.1	Chloride	76		mg Cl/L	P384002	
		Sulfate	52		mg SO4/L	P384004	
	SM 2120 B-2011	Color (true)	150		PCU	P383760	
	SM 2320 B-2011	Total Alkalinity	176		mg CaCO3/L	P383848	
	SM 2540 C-2011	TDS	457	A	mg/L	P384363	
	SM 2540 D-2011	TSS	8	IA	mg/L	P384354	
	SM 4500 F-C-2011	Fluoride	0.28		mg F/L	P383854	
2178971	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P383773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.5		mg N/L	P383886	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.036		mg N/L	P383913	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P383864	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P383904	
2178973	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.072		mg P/L	P383775	

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: P383752

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P383753

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384002

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384004

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383773

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383886

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383913

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383864

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383775

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: P383760

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P383848

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

Reference Method: SM 2540 C-2011
Batch ID: P384362

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P384363

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P384353

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P384354

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P383854

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P383904

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: P384002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383773

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383886

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383913

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383864

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: P383775

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.5		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P383760

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.7		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P383848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.6		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P383854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.8		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P383904

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	107		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178770	Chloride	95.8		P	90 - 110
2178922	Chloride	97.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178770	Sulfate	94.8		P	90 - 110
2178922	Sulfate	95.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383773

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178964	Ammonia-N	99.6	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178923	Kjeldahl Nitrogen	104	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178923	NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178909	Total-P	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179085	O-Phosphate-P	98.0	98.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P383854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178942	Fluoride	97.9	96.2	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P383904

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178964	Organic Carbon	108	111	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P383752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178907	Turbidity	1.60	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P383753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178969	Turbidity	8.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178922	Chloride	1.23	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178922	Sulfate	1.21	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178964	Ammonia-N	0.561	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178923	Kjeldahl Nitrogen	1.13	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178923	NO2NO3-N	0.504	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178909	Total-P	1.54	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P383775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179085	O-Phosphate-P	0.306	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
 Batch ID: P383760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178922	Color (true)	1.91	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P383848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178942	Total Alkalinity	2.42	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
 Batch ID: P384362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178942	TDS	5.65	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
 Batch ID: P384363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178969	TDS	5.25	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P383854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178942	Fluoride	1.39	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
 Batch ID: P383904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178964	Organic Carbon	1.72	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A99552

Included Lab Sample IDs: 2178968, 2178969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105
Turbidity	102	102	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A99555

Included Lab Sample IDs: 2178968, 2178969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A99557

Included Lab Sample IDs: 2178970, 2178971

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A99558

Included Lab Sample IDs: 2178972, 2178973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.0	97.0	P/P	90 - 110
O-Phosphate-P	97.3	97.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A99591

Included Lab Sample IDs: 2178968, 2178969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.9	P/P	90 - 110
Total Alkalinity	99.6	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A99591

Included Lab Sample IDs: 2178968, 2178969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	101	P/P	90 - 110
Fluoride	91.9	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A99616

Included Lab Sample IDs: 2178970, 2178971

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A99621

Included Lab Sample IDs: 2178970, 2178971

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A99625

Included Lab Sample IDs: 2178970, 2178971

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.2	93.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99628

Included Lab Sample IDs: 2178970, 2178971

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99659

Included Lab Sample IDs: 2178968, 2178969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Chloride	99.8	100	P/P	90 - 110
Sulfate	99.2	99.7	P/P	90 - 110
Sulfate	99.7	99.6	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				1.60	
	Turbidity				8.07	
EPA 300.0 Rev. 2.1	Chloride	98.6	97.7	95.8	1.23	
	Sulfate	97.8	95.5	94.8	1.21	
EPA 350.1 Rev. 2.0	Ammonia-N	97.3	99.6	99.0		0.561
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	104	106		1.13
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	99.5	99.0		0.504
EPA 365.1 Rev. 2.0	Total-P	103	103	105		1.54
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.5	98.0	98.3		0.306
SM 2120 B-2011	Color (true)	98.7			1.91	
SM 2320 B-2011	Total Alkalinity	99.6			2.42	
SM 2540 C-2011	TDS				5.65	
	TDS				5.25	
SM 4500 F-C-2011	Fluoride	96.8	97.9	96.2		1.39
SM 5310 B-2011	Organic Carbon	107	108	111		1.72

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2178968, 2178969
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2178968, 2178969
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2178968, 2178969
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2178970, 2178971
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2178970, 2178971
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2178970, 2178971
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2178970, 2178971
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2178972, 2178973
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2178968, 2178969
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2178968, 2178969
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2178968, 2178969
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2178968, 2178969
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2178968, 2178969
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2178970, 2178971

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	06/26/2020			06/26/2020 16:13	Yen Ta	2178968, 2178969
EPA 300.0 Rev. 2.1	06/26/2020			07/02/2020 04:13	Elliott Rodriguez	2178968
	06/26/2020			07/02/2020 04:50	Elliott Rodriguez	2178969
EPA 350.1 Rev. 2.0	06/26/2020			06/28/2020 14:25	Ping Hua	2178971
	06/26/2020			06/28/2020 14:27	Ping Hua	2178970
EPA 351.2 Rev. 2.0	06/26/2020	06/30/2020 14:30	Jhamieka S. Greenwood	07/01/2020 12:28	Jhamieka S. Greenwood	2178970
	06/26/2020	06/30/2020 14:30	Jhamieka S. Greenwood	07/01/2020 12:30	Jhamieka S. Greenwood	2178971
EPA 353.2 Rev. 2.0	06/26/2020			07/01/2020 09:01	Beverly Y. Sanders	2178970
	06/26/2020			07/01/2020 09:02	Beverly Y. Sanders	2178971
EPA 365.1 Rev. 2.0	06/26/2020	06/30/2020 11:51	Yen Ta	07/01/2020 13:25	Benjamin T. Nordmann	2178970
	06/26/2020	06/30/2020 11:51	Yen Ta	07/01/2020 13:26	Benjamin T. Nordmann	2178971
EPA 365.1 Rev. 2.0 dissolved	06/26/2020			06/26/2020 16:46	Jhamieka S. Greenwood	2178973
	06/26/2020			06/26/2020 17:25	Jhamieka S. Greenwood	2178972
SM 2120 B-2011	06/26/2020			06/26/2020 17:47	Benjamin T. Nordmann	2178968, 2178969
SM 2320 B-2011	06/26/2020			06/29/2020 20:11	Dale L. Simmons	2178968
	06/26/2020			06/29/2020 21:00	Dale L. Simmons	2178969
SM 2540 C-2011	06/26/2020			07/01/2020 13:59	Yijie Li	2178968, 2178969
SM 2540 D-2011	06/26/2020			07/01/2020 13:59	Yijie Li	2178968, 2178969
SM 4500 F-C-2011	06/26/2020			06/29/2020 20:11	Dale L. Simmons	2178968
	06/26/2020			06/29/2020 21:00	Dale L. Simmons	2178969
SM 5310 B-2011	06/26/2020			07/01/2020 00:39	David Boose	2178970
	06/26/2020			07/01/2020 00:51	David Boose	2178971