

Chemical Analysis Report

NE-DIST-2021-10-12-01

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

Event Description: **Suwannee Central**
Request ID: **RQ-2021-09-20-17**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 03-NOV-2021 13:18

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first 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 groups are included in this report: Nutrients and Pesticides.

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: CANNON CREEK @ CR 341 (SISTERS WELCOME RD)

Collection Date/Time: 10/11/2021 11:10

Field ID: 21030090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2282706	EPA 8276	Chlordane	2.7	U	ng/L	P405048	
		Toxaphene	16	U	ng/L	P405048	

Sample Location: OLUSTEE CREEK AT SR-18

Collection Date/Time: 10/11/2021 12:15

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2282680	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P404946	
	EPA 300.0 Rev. 2.1	Chloride	6.9	A	mg Cl/L	P405156	
		Sulfate	0.30	IA	mg SO4/L	P405159	
		Color (true)	570		PCU	P404936	
	SM 2120 B-2011	Total Alkalinity	2.2	I	mg CaCO3/L	P405148	
	SM 2540 C-2011	TDS	115		mg/L	P405531	
	SM 2540 D-2011	TSS	2	U	mg/L	P405406	
	SM 4500 F-C-2011	Fluoride	0.085	I	mg F/L	P405154	
2282681	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P405236	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P405516	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.073		mg N/L	P405094	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P405180	
	SM 5310 B-2011	Organic Carbon	44		mg C/L	P405359	
2282682	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.22		mg P/L	P404931	
2282705	EPA 8276	Chlordane	2.8	I	ng/L	P405048	
		Toxaphene	16	U	ng/L	P405048	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: CANNON CR @ S WARD ST

Collection Date/Time: 10/11/2021 11:30

Field ID: 21030016FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2282707	EPA 8276	Chlordane	2.7	U	ng/L	P405048	
		Toxaphene	16	U	ng/L	P405048	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P404946

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405156

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405159

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405236

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405516

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405094

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405180

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404931

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

Reference Method: EPA 8276
Batch ID: P405048

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P404936

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P405148

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

Reference Method: SM 2540 C-2011
Batch ID: P405531

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P405406

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P405154

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P405359

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: P405156

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	94.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405159

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: P405236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405516

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405094

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: P405180

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404931

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

Reference Method: EPA 8276
Batch ID: P405048

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	103	92.6	P/P	56 - 117
Toxaphene	88.1	81.0	P/P	45 - 116

Reference Method: SM 2120 B-2011
Batch ID: P404936

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P405148

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

Reference Method: SM 4500 F-C-2011
Batch ID: P405154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P405359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P405156

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282680	Chloride	99.2		P	90 - 110
2282856	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P405159

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282680	Sulfate	98.6		P	90 - 110
2282856	Sulfate	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P405236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282691	Ammonia-N	96.6	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P405516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283282	Kjeldahl Nitrogen	96.0	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P405094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282622	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P405180

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282658	Total-P	108	110	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P404931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282632	O-Phosphate-P	97.8	98.5	P/P	90 - 110

Reference Method: EPA 8276

Batch ID: P405048

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283175	Chlordane	96.0	105	P/P	47 - 128
2283175	Toxaphene	92.1	105	P/P	11 - 163

Reference Method: SM 4500 F-C-2011

Batch ID: P405154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282443	Fluoride	102	101	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P405359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282451	Organic Carbon	95.9	96.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P404946

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282657	Turbidity	2.60	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P405156

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282680	Chloride	0.206	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P405236

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282691	Ammonia-N	0.314	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P405516

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283282	Kjeldahl Nitrogen	1.47	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P405094

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282622	NO2NO3-N	0.496	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P405180

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282658	Total-P	1.07	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P404931

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282632	O-Phosphate-P	0.384	Spike	P	0 - 20

Reference Method: EPA 8276

Batch ID: P405048

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283175	Chlordane	9.03	Spike	P	0 - 30
2283175	Toxaphene	13.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
 Batch ID: P405048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	10.7	LCS	P	0 - 30
LFB	Toxaphene	8.30	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
 Batch ID: P404936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282662	Color (true)	0.648	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P405148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282443	Total Alkalinity	4.87	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
 Batch ID: P405531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282663	TDS	6.63	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P405154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282443	Fluoride	0.513	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
 Batch ID: P405359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282451	Organic Carbon	0.383	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2282705
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	72.6	P	29 - 92.0
EPA 8276	PCNB	83.8	P	43 - 134

Lab Sample ID: 2282706
Field Sample ID: 21030090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	81.9	P	29 - 92.0
EPA 8276	PCNB	82.5	P	43 - 134

Lab Sample ID: 2282707
Field Sample ID: 21030016FLA

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	80.9	P	29 - 92.0
EPA 8276	PCNB	78.1	P	43 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A108279

Included Lab Sample IDs: 2282680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.7	100	P/P	90 - 110
Sulfate	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A108286

Included Lab Sample IDs: 2282682

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	98.0	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A108289

Included Lab Sample IDs: 2282680

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A108293

Included Lab Sample IDs: 2282680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108349

Included Lab Sample IDs: 2282681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A108368

Included Lab Sample IDs: 2282680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	99.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A108368

Included Lab Sample IDs: 2282680

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108403

Included Lab Sample IDs: 2282681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	106	108	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A108412

Included Lab Sample IDs: 2282681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.2	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A108429

Included Lab Sample IDs: 2282705, 2282706, 2282707

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.8		P	80 - 120
Toxaphene	103		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A108454

Included Lab Sample IDs: 2282681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	94.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A108536

Included Lab Sample IDs: 2282681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.6	98.6	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		LCS	Precision	MS
							SMP	
EPA 180.1 Rev. 2.0	Turbidity						2.60	
EPA 300.0 Rev. 2.1	Chloride	94.5		99.2	98.8		0.206	
	Sulfate	97.8		98.6	99.2			
EPA 350.1 Rev. 2.0	Ammonia-N	97.4		97.0	96.6			0.314
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		96.0	98.0			1.47
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100		101	100			0.496
EPA 365.1 Rev. 2.0	Total-P	106		108	110			1.07
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.4		97.8	98.5			0.384
EPA 8276	Chlordane	103	92.6	96.0	105	10.7		9.03
	Toxaphene	88.1	81.0	92.1	105	8.30		13.3
SM 2120 B-2011	Color (true)	100					0.648	
SM 2320 B-2011	Total Alkalinity	102					4.87	
SM 2540 C-2011	TDS						6.63	
SM 4500 F-C-2011	Fluoride	103		102	101			0.513
SM 5310 B-2011	Organic Carbon	97.4		95.9	96.3			0.383

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2282680
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2282680
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2282680
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2282681
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2282681
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2282681
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2282681
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2282682
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2282705, 2282706, 2282707
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2282680
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2282680
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2282680
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2282680
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2282680
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2282681

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	10/12/2021			10/12/2021 17:02	Khloe J Berg	2282680
EPA 300.0 Rev. 2.1	10/12/2021			10/15/2021 12:09	Roberta Tatti	2282680
EPA 350.1 Rev. 2.0	10/12/2021			10/19/2021 14:01	Ping Hua	2282681
EPA 351.2 Rev. 2.0	10/12/2021	10/25/2021 11:51	Benjamin T. Nordmann	10/26/2021 10:40	Alexandra J Mattheus	2282681
EPA 353.2 Rev. 2.0	10/12/2021			10/15/2021 09:46	Beverly Y. Sanders	2282681
EPA 365.1 Rev. 2.0	10/12/2021	10/18/2021 13:17	Simonne.V. Calhoun	10/19/2021 11:55	Lipi Saha	2282681
EPA 365.1 Rev. 2.0 dissolved	10/12/2021			10/12/2021 14:33	James L Waggerby	2282682
EPA 8276	10/12/2021	10/17/2021 10:45	Rasheda Ghaffari	10/19/2021 03:15	Michael Poppell	2282705
	10/12/2021	10/17/2021 10:45	Rasheda Ghaffari	10/19/2021 04:10	Michael Poppell	2282706
	10/12/2021	10/17/2021 10:45	Rasheda Ghaffari	10/19/2021 05:06	Michael Poppell	2282707
SM 2120 B-2011	10/12/2021			10/12/2021 15:39	Benjamin T. Nordmann	2282680
SM 2320 B-2011	10/12/2021			10/16/2021 15:56	Dale L. Simmons	2282680
SM 2540 C-2011	10/12/2021			10/14/2021 15:39	Yijie Li	2282680
SM 2540 D-2011	10/12/2021			10/14/2021 15:39	Yijie Li	2282680
SM 4500 F-C-2011	10/12/2021			10/16/2021 15:56	Dale L. Simmons	2282680
SM 5310 B-2011	10/12/2021			10/19/2021 01:41	Khloe J Berg	2282681