

Chemical Analysis Report

NE-DIST-2021-05-13-02

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-2021-04-26-16**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 02-JUN-2021 11:08



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: Olustee Creek at SR-18

Collection Date/Time: 05/12/2021 13:45

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2247295	EPA 180.1 Rev. 2.0	Turbidity	5.1		NTU	P398149	
	EPA 300.0 Rev. 2.1	Chloride	8.1		mg Cl/L	P398647	
		Sulfate	0.73		mg SO4/L	P398650	
	SM 2120 B-2011	Color (true)	450		PCU	P398170	
	SM 2320 B-2011	Total Alkalinity	4.8		mg CaCO3/L	P398479	
	SM 2540 C-2011	TDS	104		mg/L	P398794	
	SM 2540 D-2011	TSS	3	I	mg/L	P398433	
	SM 4500 F-C-2011	Fluoride	0.081	I	mg F/L	P398698	
2247296	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P398596	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P398422	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.055		mg N/L	P398199	
	EPA 365.1 Rev. 2.0	Total-P	0.25		mg P/L	P398539	
	SM 5310 B-2011	Organic Carbon	39		mg C/L	P398320	
2247297	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.17		mg P/L	P398141	
2247300	EPA 8276	Chlordane	5.2	U	ng/L	P398116	
		Toxaphene	31	U	ng/L	P398116	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P398149

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398647

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398650

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398596

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398422

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398199

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398539

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398141

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

Reference Method: EPA 8276
Batch ID: P398116

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P398170

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P398479

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

Reference Method: SM 2540 C-2011
Batch ID: P398794

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P398433

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P398698

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P398320

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: P398647

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398650

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398596

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398422

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398199

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398539

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: P398141

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

Reference Method: EPA 8276
Batch ID: P398116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.2	86.9	P/P	56 - 117
Toxaphene	85.0	85.9	P/P	45 - 116

Reference Method: SM 2120 B-2011
Batch ID: P398170

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.5		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P398479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.5		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P398698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P398320

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247187	Chloride	102		P	90 - 110
2247314	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247187	Sulfate	101		P	90 - 110
2247314	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398596

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247192	Ammonia-N	96.8	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398422

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247251	Kjeldahl Nitrogen	104	99.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247282	NO2NO3-N	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398539

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247190	Total-P	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398141

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247236	O-Phosphate-P	97.5	95.9	P/P	90 - 110

Reference Method: EPA 8276
Batch ID: P398116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247085	Chlordane	84.6	77.8	P/P	47 - 128
2247085	Toxaphene	82.6	79.8	P/P	11 - 163

Reference Method: SM 4500 F-C-2011
Batch ID: P398698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247186	Fluoride	98.7	99.4	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P398320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247190	Organic Carbon	95.8	97.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P398149

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247250	Turbidity	2.58	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247187	Chloride	0.916	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247187	Sulfate	1.70	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398596

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247192	Ammonia-N	0.786	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398422

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247251	Kjeldahl Nitrogen	2.79	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247282	NO2NO3-N	0.477	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247190	Total-P	0.784	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398141

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247236	O-Phosphate-P	1.65	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P398116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247085	Chlordane	8.32	Spike	P	0 - 30
2247085	Toxaphene	3.44	Spike	P	0 - 30
LFB	Chlordane	4.75	LCS	P	0 - 30
LFB	Toxaphene	1.00	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P398170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247284	Color (true)	1.14	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P398479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246889	Total Alkalinity	1.78	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P398794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247250	TDS	2.92	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P398433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247250	TSS	6.90	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P398698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247186	Fluoride	0.506	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P398320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247190	Organic Carbon	1.04	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2247300
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	81.5	P	29 - 92.0
EPA 8276	PCNB	84.4	P	43 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A105405

Included Lab Sample IDs: 2247297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A105412

Included Lab Sample IDs: 2247295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A105418

Included Lab Sample IDs: 2247295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	101	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A105426

Included Lab Sample IDs: 2247296

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: A105479

Included Lab Sample IDs: 2247296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.9	96.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A105548

Included Lab Sample IDs: 2247295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.8	97.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A105550

Included Lab Sample IDs: 2247295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Sulfate	99.6	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A105563

Included Lab Sample IDs: 2247296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	94.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105588

Included Lab Sample IDs: 2247296

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105595

Included Lab Sample IDs: 2247296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.5	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A105608

Included Lab Sample IDs: 2247300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	100		P	80 - 120

Reference Method: SM 4500 F-C-2011

Run ID: A105626

Included Lab Sample IDs: 2247295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	100	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						2.58	
EPA 300.0 Rev. 2.1	Chloride	103		102	103		0.916	
	Sulfate	102		101	102		1.70	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4		96.8	97.6			0.786
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.2		104	99.3			2.79
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	105		104	105			0.477
EPA 365.1 Rev. 2.0	Total-P	106		105	104			0.784
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.4		97.5	95.9			1.65
EPA 8276	Chlordane	91.2	86.9	84.6	77.8	4.75		8.32
	Toxaphene	85.0	85.9	82.6	79.8	1.00		3.44
SM 2120 B-2011	Color (true)	99.5					1.14	
SM 2320 B-2011	Total Alkalinity	98.5					1.78	
SM 2540 C-2011	TDS						2.92	
SM 2540 D-2011	TSS						6.90	
SM 4500 F-C-2011	Fluoride	96.5		98.7	99.4			0.506
SM 5310 B-2011	Organic Carbon	97.0		95.8	97.1			1.04

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2247295
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2247295
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2247295
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2247296
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2247296
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2247296
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2247296
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2247297
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2247300
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2247295
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2247295
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2247295
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2247295
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2247295
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2247296

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	05/13/2021			05/13/2021 15:03	Sarah A Nixon	2247295
EPA 300.0 Rev. 2.1	05/13/2021			05/22/2021 04:59	Lipi Saha	2247295
EPA 350.1 Rev. 2.0	05/13/2021			05/21/2021 12:14	Roberta Tatti	2247296
EPA 351.2 Rev. 2.0	05/13/2021	05/19/2021 14:12	Benjamin T. Nordmann	05/20/2021 11:10	Virginia P. Brown	2247296
EPA 353.2 Rev. 2.0	05/13/2021			05/14/2021 09:41	Beverly Y. Sanders	2247296
EPA 365.1 Rev. 2.0	05/13/2021	05/20/2021 14:05	Yen Ta	05/21/2021 10:26	Shengyu Ding	2247296
EPA 365.1 Rev. 2.0 dissolved	05/13/2021			05/13/2021 14:01	Blanca Fach	2247297
EPA 8276	05/13/2021	05/14/2021 08:00	Fe-Val Siddell	05/22/2021 16:02	Arthur Maknenko	2247300
SM 2120 B-2011	05/13/2021			05/13/2021 16:26	Madeline Gruver	2247295
SM 2320 B-2011	05/13/2021			05/18/2021 21:05	Dale L. Simmons	2247295
SM 2540 C-2011	05/13/2021			05/18/2021 14:02	Yijie Li	2247295
SM 2540 D-2011	05/13/2021			05/18/2021 14:02	Yijie Li	2247295
SM 4500 F-C-2011	05/13/2021			05/24/2021 22:33	Dale L. Simmons	2247295
SM 5310 B-2011	05/13/2021			05/17/2021 21:02	Lauren Lees	2247296