Chemical Analysis Report

TLH-ROC-2021-05-18-01

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

Event Description: **Run 3**
Request ID: **RQ-2021-05-17-52**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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Tallahassee, FL 32399
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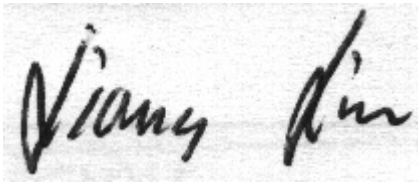
Certified by: Liang Lin, Environmental Administrator

Date Certified: 10-JUN-2021 14:33



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: Ichetucknee Riv 80m Upstream **Collection Date/Time: 05/18/2021 11:00**

Field ID: G1TLHR0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248152	EPA 8276	Chlordane	5.3	UQ	ng/L	P398782	
		Toxaphene	32	UQ	ng/L	P398782	

Ref. Method and Comment:
EPA 8276: Sample expired due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes.

Sample Location: Ruth Spring **Collection Date/Time: 05/18/2021 12:10**

Field ID: G1TLHR0140 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248145	EPA 180.1 Rev. 2.0	Turbidity	0.60		NTU	P398463	
	EPA 300.0 Rev. 2.1	Chloride	7.6		mg Cl/L	P398767	
		Sulfate	15		mg SO4/L	P398769	
	SM 2120 B-2011	Color (true)	8.0		PCU	P398457	
	SM 2320 B-2011	Total Alkalinity	176		mg CaCO3/L	P398631	
	SM 2540 C-2011	TDS	232		mg/L	P398892	
	SM 2540 D-2011	TSS	2	U	mg/L	P398605	
	SM 4500 F-C-2011	Fluoride	0.085	I	mg F/L	P398635	
2248146	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P399166	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P398617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	5.3		mg N/L	P398401	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P398590	
	SM 5310 B-2011	Organic Carbon	1.7		mg C/L	P398623	
2248147	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.040		mg P/L	P398453	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: 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: P398463

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398767

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398769

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399166

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398617

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398401

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398590

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398453

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

Reference Method: EPA 8276
Batch ID: P398782

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: P398457

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P398631

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

Reference Method: SM 2540 C-2011
Batch ID: P398892

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P398605

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P398635

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P398623

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: P398767

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398769

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399166

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398617

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398401

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: P398590

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: P398453

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

Reference Method: EPA 8276
Batch ID: P398782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.6	77.5	P/P	56 - 117
Toxaphene	85.9	68.7	P/P	45 - 116

Reference Method: SM 2120 B-2011
Batch ID: P398457

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P398631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.4		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P398635

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P398623

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398767

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247966	Chloride	101		P	90 - 110
2248094	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247966	Sulfate	100		P	90 - 110
2248094	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399166

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2248146	Ammonia-N	96.8	95.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398401

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2248096	NO2NO3-N	96.5	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2248146	Total-P	108	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2248482	O-Phosphate-P	99.3	97.9	P/P	90 - 110

Reference Method: EPA 8276
Batch ID: P398782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2247723	Chlordane	83.2		P	47 - 128
2247723	Toxaphene	130		P	11 - 163

Reference Method: SM 4500 F-C-2011
Batch ID: P398635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2248796	Fluoride	99.4	99.4	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P398623

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2248187	Organic Carbon	96.8	96.3	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P398463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248183	Turbidity	1.21	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247966	Chloride	1.63	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2247966	Sulfate	0.885	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248146	Ammonia-N	0.867	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398617

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248093	Kjeldahl Nitrogen	2.17	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398401

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248096	NO2NO3-N	0.517	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248146	Total-P	1.34	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248482	O-Phosphate-P	1.33	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P398782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	25.0	LCS	P	0 - 30
LFB	Toxaphene	22.2	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P398457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248178	Color (true)	0.797	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P398631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248796	Total Alkalinity	0.361	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P398892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248086	TDS	6.11	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P398635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248796	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P398623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248187	Organic Carbon	0.401	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2248152
Field Sample ID: G1TLHR0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	67.6	P	29 - 92.0
EPA 8276	PCNB	84.0	P	43 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A105523
Included Lab Sample IDs: 2248146

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A105535
Included Lab Sample IDs: 2248147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	99.1	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A105536
Included Lab Sample IDs: 2248145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	99.7	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A105537
Included Lab Sample IDs: 2248145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.0	P/P	95 - 105

Reference Method: SM 5310 B-2011
Run ID: A105604
Included Lab Sample IDs: 2248146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	97.9	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A105605
Included Lab Sample IDs: 2248145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.6	98.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A105605
Included Lab Sample IDs: 2248145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A105619
Included Lab Sample IDs: 2248146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.0	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A105637
Included Lab Sample IDs: 2248146

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A105658
Included Lab Sample IDs: 2248145

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A105849
Included Lab Sample IDs: 2248146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.3	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A105913
Included Lab Sample IDs: 2248152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.7		P	80 - 120
Toxaphene	95.0		P	80 - 120

* 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						1.21	
EPA 300.0 Rev. 2.1	Chloride	102		101	101		1.63	
	Sulfate	102		100	101		0.885	
EPA 350.1 Rev. 2.0	Ammonia-N	101		96.8	95.8			0.867
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.8						2.17
EPA 353.2 Rev. 2.0	NO2NO3-N	100		96.5	97.0			0.517
EPA 365.1 Rev. 2.0	Total-P	106		108	106			1.34
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.5		99.3	97.9			1.33
EPA 8276	Chlordane	99.6	77.5	83.2		25.0		
	Toxaphene	85.9	68.7	130		22.2		
SM 2120 B-2011	Color (true)	99.7					0.797	
SM 2320 B-2011	Total Alkalinity	99.4					0.361	
SM 2540 C-2011	TDS						6.11	
SM 4500 F-C-2011	Fluoride	102		99.4	99.4			0.0
SM 5310 B-2011	Organic Carbon	95.4		96.8	96.3			0.401

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2248145
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2248145
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2248145
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2248146
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2248146
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2248146
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2248146
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2248147
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2248152
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2248145
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2248145
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2248145
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2248145
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2248145
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2248146

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	05/18/2021			05/19/2021 16:40	Yen Ta	2248145
EPA 300.0 Rev. 2.1	05/18/2021			05/25/2021 04:51	Lipi Saha	2248145
EPA 350.1 Rev. 2.0	05/18/2021			06/03/2021 11:43	Roberta Tatti	2248146
EPA 351.2 Rev. 2.0	05/18/2021	05/21/2021 13:20	Benjamin T. Nordmann	05/24/2021 10:55	Virginia P. Brown	2248146
EPA 353.2 Rev. 2.0	05/18/2021			05/19/2021 10:58	Beverly Y. Sanders	2248146
EPA 365.1 Rev. 2.0	05/18/2021	05/21/2021 13:27	Yen Ta	05/25/2021 10:57	Shengyu Ding	2248146
EPA 365.1 Rev. 2.0 dissolved	05/18/2021			05/19/2021 15:29	Blanca Fach	2248147
EPA 8276	05/18/2021	05/27/2021 08:00	Rasheda Ghaffari	06/04/2021 04:45	Chiran X. Ghimire	2248152
SM 2120 B-2011	05/18/2021			05/19/2021 15:41	Sarah A Nixon	2248145
SM 2320 B-2011	05/18/2021			05/22/2021 05:30	Dale L. Simmons	2248145
SM 2540 C-2011	05/18/2021			05/20/2021 15:22	Yijie Li	2248145
SM 2540 D-2011	05/18/2021			05/20/2021 15:22	Yijie Li	2248145
SM 4500 F-C-2011	05/18/2021			05/22/2021 05:30	Dale L. Simmons	2248145
SM 5310 B-2011	05/18/2021			05/21/2021 03:56	Madeline Gruver	2248146