Chemical Analysis Report

SO-DIST-2021-10-15-01

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

Event Description: **2021 SMP : Myakka**
Request ID: **RQ-2021-10-11-52**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

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: Colin Wright, Program Administrator

Date Certified: 10-NOV-2021 09:08

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: Brandy Branch @ SR 70 **Collection Date/Time: 10/14/2021 09:20**

Field ID: G3SD0083 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2283914	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P405129	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P405291	
		Sulfate	120		mg SO4/L	P405451	
	SM 2120 B-2011	Color (true)	420		PCU	P405132	
	SM 2320 B-2011	Total Alkalinity	31		mg CaCO3/L	P405378	
	SM 2540 C-2011	TDS	281		mg/L	P405598	
	SM 2540 D-2011	TSS	10	I	mg/L	P405594	
	SM 4500 F-C-2011	Fluoride	0.33		mg F/L	P405382	
2283915	EPA 350.1 Rev. 2.0	Ammonia-N	0.041		mg N/L	P405562	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P405340	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.42		mg N/L	P405317	
	EPA 365.1 Rev. 2.0	Total-P	0.29		mg P/L	P405331	
	SM 5310 B-2011	Organic Carbon	33		mg C/L	P405620	
2283916	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.23		mg P/L	P405126	
2283920	EPA 8276	Chlordane	2.6	U	ng/L	P405098	
		Toxaphene	16	U	ng/L	P405098	

Ref. Method and Comment:
SM 2120 B-2011: 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.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P405129

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405291

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405451

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405562

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405340

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405317

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405331

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405126

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

Reference Method: EPA 8276
Batch ID: P405098

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: P405132

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P405378

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

Reference Method: SM 2540 C-2011
Batch ID: P405598

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P405594

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P405382

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P405620

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: P405291

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405451

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405562

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: P405340

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405317

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: P405331

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405126

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.9		P	90 - 110

Reference Method: EPA 8276
Batch ID: P405098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	93.7	89.1	P/P	56 - 117
Toxaphene	82.7	75.9	P/P	45 - 116

Reference Method: SM 2120 B-2011
Batch ID: P405132

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P405378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.0		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P405382

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P405620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283634	Chloride	98.8		P	90 - 110
2283712	Chloride	99.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405451

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284064	Sulfate	103		P	90 - 110
2284350	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405562

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283833	Ammonia-N	92.8	94.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284284	Kjeldahl Nitrogen	100	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283775	NO2NO3-N	98.6	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405331

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284065	Total-P	103	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405126

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283867	O-Phosphate-P	97.0	96.2	P/P	90 - 110

Reference Method: EPA 8276
Batch ID: P405098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283947	Chlordane	87.6	86.8	P/P	47 - 128
2283947	Toxaphene	81.9	84.1	P/P	11 - 163

Reference Method: SM 4500 F-C-2011
Batch ID: P405382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283923	Fluoride	99.8	98.7	P/P	92 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P405620

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284221	Organic Carbon	98.9	99.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P405129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283832	Turbidity	1.70	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283634	Chloride	0.735	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P405451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284064	Sulfate	0.373	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283833	Ammonia-N	0.969	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284284	Kjeldahl Nitrogen	2.73	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283775	NO2NO3-N	0.418	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405331

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284065	Total-P	2.20	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405126

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283867	O-Phosphate-P	0.542	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P405098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283947	Chlordane	0.934	Spike	P	0 - 30
2283947	Toxaphene	2.58	Spike	P	0 - 30
LFB	Chlordane	5.01	LCS	P	0 - 30
LFB	Toxaphene	8.50	LCS	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P405378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283923	Total Alkalinity	0.277	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P405598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283696	TDS	4.48	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P405382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283923	Fluoride	1.03	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P405620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284221	Organic Carbon	0.212	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2283920
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	73.8	P	29 - 92.0
EPA 8276	PCNB	80.0	P	43 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A108361
Included Lab Sample IDs: 2283916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.6	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A108362
Included Lab Sample IDs: 2283914

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

Reference Method: SM 2120 B-2011
Run ID: A108363
Included Lab Sample IDs: 2283914

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A108426
Included Lab Sample IDs: 2283914

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A108437
Included Lab Sample IDs: 2283915

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

Reference Method: SM 2320 B-2011
Run ID: A108459
Included Lab Sample IDs: 2283914

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.4	95.8	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A108459
Included Lab Sample IDs: 2283914

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	100	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A108462
Included Lab Sample IDs: 2283920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A108462
Included Lab Sample IDs: 2283920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Toxaphene	105		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A108465
Included Lab Sample IDs: 2283915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A108481
Included Lab Sample IDs: 2283915

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A108519
Included Lab Sample IDs: 2283915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	99.7	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A108545
Included Lab Sample IDs: 2283915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	96.0	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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						1.70	
EPA 300.0 Rev. 2.1	Chloride	97.8		98.8	99.1		0.735	
	Sulfate	101		103	99.7		0.373	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4		92.8	94.0			0.969
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101		100	104			2.73
EPA 353.2 Rev. 2.0	NO2NO3-N	102		98.6	99.0			0.418
EPA 365.1 Rev. 2.0	Total-P	99.6		103	101			2.20
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.9		97.0	96.2			0.542
EPA 8276	Chlordane	93.7	89.1	87.6	86.8	5.01		0.934
	Toxaphene	82.7	75.9	81.9	84.1	8.50		2.58
SM 2120 B-2011	Color (true)	98.7						
SM 2320 B-2011	Total Alkalinity	98.0					0.277	
SM 2540 C-2011	TDS						4.48	
SM 4500 F-C-2011	Fluoride	99.8		99.8	98.7			1.03
SM 5310 B-2011	Organic Carbon	96.2		98.9	99.2			0.212

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2283914
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2283914
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2283914
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2283915
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2283915
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2283915
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2283915
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2283916
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2283920
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2283914
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2283914
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2283914
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2283914
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2283914
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2283915

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	10/15/2021			10/15/2021 16:27	Khloe J Berg	2283914
EPA 300.0 Rev. 2.1	10/15/2021			10/19/2021 20:20	Roberta Tatti	2283914
	10/15/2021			10/21/2021 16:23	Lipi Saha	2283914
EPA 350.1 Rev. 2.0	10/15/2021			10/22/2021 12:56	Ping Hua	2283915
EPA 351.2 Rev. 2.0	10/15/2021	10/20/2021 13:30	Benjamin T. Nordmann	10/21/2021 10:27	Alexandra J Mattheus	2283915
EPA 353.2 Rev. 2.0	10/15/2021			10/20/2021 12:05	Beverly Y. Sanders	2283915
EPA 365.1 Rev. 2.0	10/15/2021	10/20/2021 14:17	Simonne.V. Calhoun	10/22/2021 11:12	Lipi Saha	2283915
EPA 365.1 Rev. 2.0 dissolved	10/15/2021			10/15/2021 14:39	James L Waggerby	2283916
EPA 8276	10/15/2021	10/18/2021 08:00	Fe-Val Siddell	10/20/2021 19:09	Michael Poppell	2283920
SM 2120 B-2011	10/15/2021			10/15/2021 17:43	Benjamin T. Nordmann	2283914
SM 2320 B-2011	10/15/2021			10/19/2021 22:55	Dale L. Simmons	2283914
SM 2540 C-2011	10/15/2021			10/19/2021 15:08	Yijie Li	2283914
SM 2540 D-2011	10/15/2021			10/19/2021 15:08	Yijie Li	2283914
SM 4500 F-C-2011	10/15/2021			10/19/2021 22:55	Dale L. Simmons	2283914
SM 5310 B-2011	10/15/2021			10/25/2021 23:52	Khloe J Berg	2283915