Chemical Analysis Report

SO-DIST-2020-08-14-01

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

Event Description: **2020 SMP : ENP**
Request ID: **RQ-2020-08-03-46**
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
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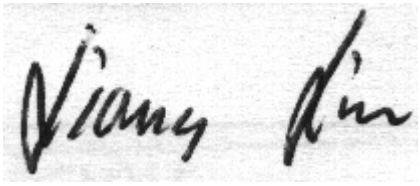
Certified by: Liang Lin, Environmental Administrator

Date Certified: 08-SEP-2020 16:04



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: 8066 @ ENRE5 **Collection Date/Time: 08/13/2020 10:55**

Field ID: G5SD0039 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190449	EPA 180.1 Rev. 2.0	Turbidity	0.75		NTU	P386066	
	EPA 300.0 Rev. 2.1	Bromide	56		mg Br/L	P386404	MS
	SM 2320 B-2011	Total Alkalinity	130		mg CaCO3/L	P386326	
	SM 2540 D-2011	TSS	3	U	mg/L	P386393	
	SM 4500 F-C-2011	Fluoride	1.3		mg F/L	P386148	
2190452	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P386238	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P386307	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P386112	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P386107	
	SM 5310 B-2011	Organic Carbon	5.3		mg C/L	P386597	
2190455	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P386070	

Sample Location: ENRE14 Harney River **Collection Date/Time: 08/13/2020 12:30**

Field ID: G5SD0077 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190450	EPA 180.1 Rev. 2.0	Turbidity	3.5	A	NTU	P386067	
	EPA 300.0 Rev. 2.1	Bromide	39		mg Br/L	P386404	MS
	SM 2320 B-2011	Total Alkalinity	164		mg CaCO3/L	P386326	
	SM 2540 D-2011	TSS	4	I	mg/L	P386393	
	SM 4500 F-C-2011	Fluoride	0.91		mg F/L	P386148	
2190453	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P386238	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P386307	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P386112	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P386107	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P386597	
2190456	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P386070	

Sample Location: 8067 ENRE9 Near First Bay **Collection Date/Time: 08/13/2020 11:45**

Field ID: G5SD0107 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190451	EPA 180.1 Rev. 2.0	Turbidity	6.8		NTU	P386067	
	EPA 300.0 Rev. 2.1	Bromide	43		mg Br/L	P386404	MS
	SM 2320 B-2011	Total Alkalinity	137		mg CaCO3/L	P386326	
	SM 2540 D-2011	TSS	4	I	mg/L	P386393	
	SM 4500 F-C-2011	Fluoride	0.98		mg F/L	P386148	
2190454	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P386238	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.64		mg N/L	P386307	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.044		mg N/L	P386112	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P386107	
	SM 5310 B-2011	Organic Carbon	8.9		mg C/L	P386597	
2190457	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P386071	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386066

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386067

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386404

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386238

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386307

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386112

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386107

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386070

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386071

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P386326

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

Reference Method: SM 2540 D-2011
Batch ID: P386393

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P386148

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P386597

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: P386404

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386238

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386307

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386112

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: P386107

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: P386070

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.8		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P386326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.7		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P386148

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	90 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P386597

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190112	Bromide	101	92.2	P/P	90 - 110
2190134	Bromide	88.8		F	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190364	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190452	Kjeldahl Nitrogen	99.2	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190361	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190364	Total-P	95.4	93.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386070

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190338	O-Phosphate-P	97.4	96.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190457	O-Phosphate-P	95.7	98.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P386148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190360	Fluoride	102	106	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P386597

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190452	Organic Carbon	102	103	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190357	Turbidity	2.38	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190450	Turbidity	4.53	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190112	Bromide	8.55	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190364	Ammonia-N	1.26	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190452	Kjeldahl Nitrogen	0.617	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190361	NO2NO3-N	0.383	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190364	Total-P	1.87	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190338	O-Phosphate-P	0.474	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190457	O-Phosphate-P	2.74	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P386326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190705	Total Alkalinity	1.24	Sample	P	0 - 8.1

Reference Method: SM 2540 D-2011
Batch ID: P386393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190363	TSS	5.00	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P386148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190360	Fluoride	2.32	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P386597

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190452	Organic Carbon	0.560	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: A100473
Included Lab Sample IDs: 2190449, 2190450, 2190451

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A100474
Included Lab Sample IDs: 2190455, 2190456, 2190457

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	99.2	P/P	90 - 110
O-Phosphate-P	99.2	98.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A100490
Included Lab Sample IDs: 2190452, 2190453, 2190454

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

Reference Method: SM 4500 F-C-2011
Run ID: A100499
Included Lab Sample IDs: 2190449, 2190450, 2190451

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A100524
Included Lab Sample IDs: 2190452, 2190453, 2190454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A100530
Included Lab Sample IDs: 2190452, 2190453, 2190454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	97.0	P/P	90 - 110
Ammonia-N	97.9	99.9	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A100560
Included Lab Sample IDs: 2190449, 2190450, 2190451

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	99.3	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A100589
Included Lab Sample IDs: 2190449, 2190450, 2190451

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	98.0	98.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A100590
Included Lab Sample IDs: 2190452, 2190453, 2190454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	98.2	P/P	90 - 110
Kjeldahl Nitrogen	98.2	98.0	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A100665
Included Lab Sample IDs: 2190452, 2190453, 2190454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	99.6	P/P	90 - 110
Organic Carbon	99.6	99.0	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						2.38	
	Turbidity						4.53	
EPA 300.0 Rev. 2.1	Bromide	99.8	101	92.2	88.8			8.55
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	101	102				1.26
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	99.2	99.9				0.617
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	100				0.383
EPA 365.1 Rev. 2.0	Total-P	103	95.4	93.3				1.87
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.4	96.9				0.474
	O-Phosphate-P	98.8	98.5	95.7				2.74
SM 2320 B-2011	Total Alkalinity	98.7					1.24	
SM 2540 D-2011	TSS						5.00	
SM 4500 F-C-2011	Fluoride	101	102	106				2.32
SM 5310 B-2011	Organic Carbon	105	102	103				0.560

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2190449, 2190450, 2190451
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2190449, 2190450, 2190451
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2190452, 2190453, 2190454
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2190452, 2190453, 2190454
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2190452, 2190453, 2190454
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2190452, 2190453, 2190454
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2190455, 2190456, 2190457
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2190449, 2190450, 2190451
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2190449, 2190450, 2190451
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2190449, 2190450, 2190451
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2190452, 2190453, 2190454

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	08/14/2020			08/14/2020 14:57	Yen Ta	2190449, 2190450, 2190451
EPA 300.0 Rev. 2.1	08/14/2020			08/20/2020 05:13	Julia Storbeck	2190449
	08/14/2020			08/20/2020 05:30	Julia Storbeck	2190450
	08/14/2020			08/20/2020 05:47	Julia Storbeck	2190451
EPA 350.1 Rev. 2.0	08/14/2020			08/18/2020 14:02	Virginia P. Brown	2190454
	08/14/2020			08/18/2020 16:05	Virginia P. Brown	2190452
	08/14/2020			08/18/2020 16:06	Virginia P. Brown	2190453
EPA 351.2 Rev. 2.0	08/14/2020	08/20/2020 10:05	Sima Feizi	08/21/2020 10:52	Jhamieka S. Greenwood	2190452
	08/14/2020	08/20/2020 10:05	Sima Feizi	08/21/2020 11:09	Jhamieka S. Greenwood	2190453
	08/14/2020	08/20/2020 10:05	Sima Feizi	08/21/2020 11:10	Jhamieka S. Greenwood	2190454
EPA 353.2 Rev. 2.0	08/14/2020			08/17/2020 10:18	Beverly Y. Sanders	2190452
	08/14/2020			08/17/2020 10:19	Beverly Y. Sanders	2190453
	08/14/2020			08/17/2020 10:20	Beverly Y. Sanders	2190454
EPA 365.1 Rev. 2.0	08/14/2020	08/17/2020 11:03	Shengyu Wang	08/19/2020 08:03	Lipi Saha	2190452
	08/14/2020	08/17/2020 11:03	Shengyu Wang	08/19/2020 08:04	Lipi Saha	2190453
	08/14/2020	08/17/2020 11:03	Shengyu Wang	08/19/2020 08:05	Lipi Saha	2190454
EPA 365.1 Rev. 2.0 dissolved	08/14/2020			08/14/2020 15:35	Virginia P. Brown	2190455
	08/14/2020			08/14/2020 15:36	Virginia P. Brown	2190456
	08/14/2020			08/14/2020 15:43	Virginia P. Brown	2190457
SM 2320 B-2011	08/14/2020			08/20/2020 08:14	Dale L. Simmons	2190449
	08/14/2020			08/20/2020 08:24	Dale L. Simmons	2190450
	08/14/2020			08/20/2020 08:34	Dale L. Simmons	2190451
SM 2540 D-2011	08/14/2020			08/19/2020 15:39	Yijie Li	2190449, 2190450, 2190451
SM 4500 F-C-2011	08/14/2020			08/17/2020 20:14	Dale L. Simmons	2190449
	08/14/2020			08/17/2020 20:19	Dale L. Simmons	2190450
	08/14/2020			08/17/2020 20:25	Dale L. Simmons	2190451
SM 5310 B-2011	08/14/2020			08/27/2020 01:30	David Boose	2190452
	08/14/2020			08/27/2020 03:36	David Boose	2190453
	08/14/2020			08/27/2020 03:48	David Boose	2190454