

Chemical Analysis Report

SO-DIST-2019-10-01-01

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

Event Description: **SMP_WildernessWaterway**

Request ID: **RQ-2019-09-23-47**

Customer: **SO-DIST**

Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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Date Certified: 17-OCT-2019 17:34



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: ENRE 10 near Boat Ramp

Collection Date/Time: 09/30/2019 10:35

Field ID: G1SD0074

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123729	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P371668	
	EPA 300.0	Bromide	58		mg Br/L	P372082	
	SM 2320 B-97	Total Alkalinity	156		mg CaCO3/L	P371987	
	SM 2540 D-97	TSS	21		mg/L	P372073	
	SM 4500 F-C-97	Fluoride	1.0		mg F/L	P371990	
2123732	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P371970	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P371698	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P372083	
	EPA 365.1 Rev. 2.0	Total-P	0.059		mg P/L	P371689	
	SM 5310 B-00	Organic Carbon	7.3		mg C/L	P371897	
2123735	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P371686	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ENRE9 @CopelandCauseway

Collection Date/Time: 09/30/2019 12:10

Field ID: G1SD0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123730	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P371668	
	EPA 300.0	Bromide	49		mg Br/L	P372082	
	SM 2320 B-97	Total Alkalinity	178		mg CaCO3/L	P371987	
	SM 2540 D-97	TSS	8	I	mg/L	P372073	
	SM 4500 F-C-97	Fluoride	0.86		mg F/L	P371990	
2123733	EPA 350.1 Rev. 2.0	Ammonia-N	0.057		mg N/L	P371970	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P371698	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.021		mg N/L	P372083	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P371689	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P371897	
2123736	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.017		mg P/L	P371686	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ENRE 9

Collection Date/Time: 09/30/2019 12:30

Field ID: G1SD0090

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123731	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P371668	
	EPA 300.0	Bromide	24		mg Br/L	P372082	
	SM 2320 B-97	Total Alkalinity	201		mg CaCO3/L	P371987	
	SM 2540 D-97	TSS	10		mg/L	P372073	
	SM 4500 F-C-97	Fluoride	0.47		mg F/L	P371990	
2123734	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P371970	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P371698	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P372084	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P371689	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P371897	
2123737	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P371686	

Ref. Method and Comment:

SM 2540 D-97: 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: P371668

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0
Batch ID: P372082

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372084

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371689

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371686

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

Reference Method: SM 2320 B-97
Batch ID: P371987

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P372073

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P371990

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P371897

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0
Batch ID: P372082

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.3		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372084

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: P371689

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371686

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

Reference Method: SM 2320 B-97
Batch ID: P371987

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P371990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	92 - 103

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P371897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0
Batch ID: P372082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123747	Bromide	95.0	94.8	P/P	90 - 110
2124140	Bromide	93.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123153	Ammonia-N	101	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123154	Kjeldahl Nitrogen	96.1	93.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123087	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372084

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123734	NO2NO3-N	97.2	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371689

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123627	Total-P	94.7	92.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123628	O-Phosphate-P	95.7	96.6	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P371990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123754	Fluoride	95.9	95.2	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P371897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123733	Organic Carbon	96.0	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123626	Turbidity	6.19	Sample	P	0 - 20

Reference Method: EPA 300.0
Batch ID: P372082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123747	Bromide	0.184	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123153	Ammonia-N	2.41	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123154	Kjeldahl Nitrogen	2.96	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123087	NO2NO3-N	0.623	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123734	NO2NO3-N	1.00	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123627	Total-P	1.99	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123628	O-Phosphate-P	0.816	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P371987

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123754	Total Alkalinity	0.467	Sample	P	0 - 2.8

Reference Method: SM 4500 F-C-97
Batch ID: P371990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123754	Fluoride	0.480	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P371897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123733	Organic Carbon	3.28	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: A94639

Included Lab Sample IDs: 2123729, 2123730, 2123731

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A94645

Included Lab Sample IDs: 2123735, 2123736, 2123737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.6	P/P	90 - 110
O-Phosphate-P	99.6	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A94700

Included Lab Sample IDs: 2123732, 2123733, 2123734

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A94711

Included Lab Sample IDs: 2123732, 2123733, 2123734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	99.1	P/P	90 - 110
Kjeldahl Nitrogen	99.7	95.4	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A94723

Included Lab Sample IDs: 2123732, 2123733, 2123734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	104	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A94750

Included Lab Sample IDs: 2123732, 2123733, 2123734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	98.0	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A94754

Included Lab Sample IDs: 2123729, 2123730, 2123731

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

Reference Method: SM 4500 F-C-97

Run ID: A94754

Included Lab Sample IDs: 2123729, 2123730, 2123731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A94754

Included Lab Sample IDs: 2123729, 2123730, 2123731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.5	P/P	90 - 110
Fluoride	99.5	100	P/P	90 - 110

Reference Method: EPA 300.0

Run ID: A94790

Included Lab Sample IDs: 2123729, 2123730, 2123731

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A94791

Included Lab Sample IDs: 2123732, 2123733, 2123734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110
NO2NO3-N	99.5	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 SMP	MS
			LCS				
EPA 180.1 Rev. 2.0	Turbidity					6.19	
EPA 300.0	Bromide	98.9	95.0	94.8	93.9		0.184
EPA 350.1 Rev. 2.0	Ammonia-N	97.3	101	104			2.41
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0	96.1	93.1			2.96
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	101	100			0.623
	NO ₂ NO ₃ -N	100	97.2	98.2			1.00
EPA 365.1 Rev. 2.0	Total-P	102	94.7	92.8			1.99
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	95.7	96.6			0.816
SM 2320 B-97	Total Alkalinity	104				0.467	
SM 4500 F-C-97	Fluoride	97.3	95.9	95.2			0.480
SM 5310 B-00	Organic Carbon	98.4	96.0	100			3.28

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2123729, 2123730, 2123731
EPA 300.0 / E31780	Bromide in aqueous matrices	2123729, 2123730, 2123731
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2123732, 2123733, 2123734
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2123732, 2123733, 2123734
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2123732, 2123733, 2123734
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2123732, 2123733, 2123734
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2123735, 2123736, 2123737
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2123729, 2123730, 2123731
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2123729, 2123730, 2123731
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2123729, 2123730, 2123731
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2123732, 2123733, 2123734

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	10/01/2019			10/01/2019 16:44	Rosalyn Ballman	2123729, 2123730, 2123731
EPA 300.0	10/01/2019			10/08/2019 05:20	Jhamieka S. Greenwood	2123729
	10/01/2019			10/08/2019 06:11	Jhamieka S. Greenwood	2123730
	10/01/2019			10/08/2019 06:28	Jhamieka S. Greenwood	2123731
EPA 350.1 Rev. 2.0	10/01/2019			10/04/2019 13:06	Ping Hua	2123732
	10/01/2019			10/04/2019 13:08	Ping Hua	2123733
	10/01/2019			10/04/2019 13:09	Ping Hua	2123734
EPA 351.2 Rev. 2.0	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 16:31	Julia Storbeck	2123732
	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 16:36	Julia Storbeck	2123733
	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 16:37	Julia Storbeck	2123734
EPA 353.2 Rev. 2.0	10/01/2019			10/08/2019 10:06	Beverly Y. Sanders	2123732
	10/01/2019			10/08/2019 10:07	Beverly Y. Sanders	2123733
	10/01/2019			10/08/2019 10:14	Beverly Y. Sanders	2123734
EPA 365.1 Rev. 2.0	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 14:08	Lipi Saha	2123732
	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 14:09	Lipi Saha	2123733
	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 14:10	Lipi Saha	2123734
EPA 365.1 Rev. 2.0 dissolved	10/01/2019			10/01/2019 15:52	Virginia P. Brown	2123735
	10/01/2019			10/01/2019 15:53	Virginia P. Brown	2123736
	10/01/2019			10/01/2019 15:58	Virginia P. Brown	2123737
SM 2320 B-97	10/01/2019			10/04/2019 03:19	Dale L. Simmons	2123731
	10/01/2019			10/04/2019 03:32	Dale L. Simmons	2123729
	10/01/2019			10/04/2019 03:45	Dale L. Simmons	2123730
SM 2540 D-97	10/01/2019			10/02/2019 15:09	Yijie Li	2123729, 2123730, 2123731
SM 4500 F-C-97	10/01/2019			10/04/2019 01:08	Dale L. Simmons	2123731
	10/01/2019			10/04/2019 02:12	Dale L. Simmons	2123729
	10/01/2019			10/04/2019 02:17	Dale L. Simmons	2123730
SM 5310 B-00	10/01/2019			10/04/2019 03:22	Madeline Funaro	2123733
	10/01/2019			10/04/2019 04:14	Madeline Funaro	2123732
	10/01/2019			10/04/2019 04:41	Madeline Funaro	2123734