

Chemical Analysis Report

TLH-ROC-2017-08-24-01

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

Event Description: **SMP 2017 Marine Kit B**
Request ID: **RQ-2017-07-17-37**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 15-SEP-2017 14:33

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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 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: FENHALLOWAY RIVER @ MOUTH

Collection Date/Time: 08/24/2017 11:20

Field ID: G1TLHR0042-2017-03

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1924374	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P330824	
	SM 2320 B-97	Total Alkalinity	170		mg CaCO3/L	P331030	
	SM 2540 D-97	TSS	2	I	mg/L	P330928	
	SM 4500 F-C-97	Fluoride	0.25		mg F/L	P331032	
1924376	EPA 350.1 Rev. 2.0	Ammonia-N	0.052		mg N/L	P331007	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P330952	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.60		mg N/L	P330917	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P330999	
	SM 5310 B-00	Organic Carbon	35		mg C/L	P331188	
1924378	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.25		mg P/L	P330815	

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: GULF OF MEXICO (ECONFINA)

Collection Date/Time: 08/24/2017 12:55

Field ID: G1TLHR0043-2017-02

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1924375	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P330824	
	SM 2320 B-97	Total Alkalinity	124	A	mg CaCO3/L	P331111	
	SM 2540 D-97	TSS	3	UA	mg/L	P330929	
	SM 4500 F-C-97	Fluoride	0.48		mg F/L	P331303	
1924377	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P331007	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P330952	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P330917	
	EPA 365.1 Rev. 2.0	Total-P	0.039		mg P/L	P330999	
	SM 5310 B-00	Organic Carbon	23		mg C/L	P331189	
1924379	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.015		mg P/L	P330815	

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: P330824

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P331007

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330952

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330917

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330999

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330815

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

Reference Method: SM 2320 B-97
Batch ID: P331030

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

Reference Method: SM 2320 B-97
Batch ID: P331111

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

Reference Method: SM 2540 D-97
Batch ID: P330928

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P330929

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P331032

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P331188

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

Reference Method: SM 5310 B-00
Batch ID: P331189

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331007

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330952

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330917

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330999

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	93.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330815

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

Reference Method: SM 2320 B-97
Batch ID: P331030

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P331030

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P331111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P331032

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.9		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P331188

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.0		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P331189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	104		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923222	Ammonia-N	99.8	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924213	Kjeldahl Nitrogen	97.6	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330917

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330917

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924215	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330999

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924377	Total-P	98.4	96.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924379	O-Phosphate-P	96.1	94.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P331032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924385	Fluoride	96.5	99.1	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924375	Fluoride	96.2	97.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P331188

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924253	Organic Carbon	104	104	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P331189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924214	Organic Carbon	103	103	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P330824

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924369	Turbidity	1.63	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923222	Ammonia-N	0.133	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924213	Kjeldahl Nitrogen	2.82	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330917

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924215	NO2NO3-N	0.480	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330999

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924377	Total-P	1.75	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924379	O-Phosphate-P	1.27	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P331030

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924385	Total Alkalinity	0.247	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P331111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924375	Total Alkalinity	0.0252	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
Batch ID: P331032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924385	Fluoride	1.97	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924375	Fluoride	0.960	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P331188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924253	Organic Carbon	0.0	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P331189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924214	Organic Carbon	0.0859	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A78608
Included Lab Sample IDs: 1924378, 1924379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	99.4	P/P	90 - 110
O-Phosphate-P	99.5	99.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A78610
Included Lab Sample IDs: 1924374, 1924375

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A78645
Included Lab Sample IDs: 1924376, 1924377

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A78685
Included Lab Sample IDs: 1924376, 1924377

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A78685
Included Lab Sample IDs: 1924376, 1924377

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	101	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A78696
Included Lab Sample IDs: 1924374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A78696
Included Lab Sample IDs: 1924374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.0	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A78699
Included Lab Sample IDs: 1924376

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A78717
Included Lab Sample IDs: 1924376, 1924377

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.5	103	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A78722
Included Lab Sample IDs: 1924375

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A78727
Included Lab Sample IDs: 1924377

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

Reference Method: SM 5310 B-00
Run ID: A78746
Included Lab Sample IDs: 1924376, 1924377

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	99.6	P/P	90 - 110
Organic Carbon	108	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A78795

Included Lab Sample IDs: 1924375

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	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	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				1.63	
EPA 350.1 Rev. 2.0	Ammonia-N	100	99.8 100			0.133
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	97.6 101			2.82
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	106	104 104			0.480
EPA 365.1 Rev. 2.0	Total-P	93.8	98.4 96.7			1.75
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.5	96.1 94.7			1.27
SM 2320 B-97	Total Alkalinity	103			0.247	
	Total Alkalinity	102			0.0252	
SM 4500 F-C-97	Fluoride	94.9	96.5 99.1			1.97
	Fluoride	95.9	96.2 97.7			0.960
SM 5310 B-00	Organic Carbon	99.0	104 104			0.0
	Organic Carbon	104	103 103			0.0859

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1924374, 1924375
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1924376, 1924377
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1924376, 1924377
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1924376, 1924377
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1924376, 1924377
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1924378, 1924379
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1924374, 1924375
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1924374, 1924375
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1924374, 1924375
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1924376, 1924377

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	08/24/2017			08/24/2017 16:33	DeAsia Armster	1924374, 1924375
EPA 350.1 Rev. 2.0	08/24/2017			08/28/2017	Sofia Elnemr	1924376, 1924377
EPA 351.2 Rev. 2.0	08/24/2017	08/29/2017	Adrian Shelby	08/30/2017	Joseph Suarez	1924376, 1924377
EPA 353.2 Rev. 2.0	08/24/2017			08/28/2017	Beverly Y. Sanders	1924376, 1924377
EPA 365.1 Rev. 2.0	08/24/2017	08/29/2017	Sima Feizi	08/30/2017	Lipi Saha	1924376
	08/24/2017	08/29/2017	Sima Feizi	08/31/2017	Lipi Saha	1924377
EPA 365.1 Rev. 2.0 dissolved	08/24/2017			08/24/2017 15:27	Megan Treadwell	1924379
	08/24/2017			08/24/2017 16:22	Megan Treadwell	1924378
SM 2320 B-97	08/24/2017			08/30/2017	Dale L. Simmons	1924374, 1924375
SM 2540 D-97	08/24/2017			08/25/2017	DeAsia Armster	1924374, 1924375
SM 4500 F-C-97	08/24/2017			08/30/2017	Dale L. Simmons	1924374
	08/24/2017			09/05/2017	Dale L. Simmons	1924375
SM 5310 B-00	08/24/2017			08/31/2017	Ping Hua	1924376
	08/24/2017			09/01/2017	Ping Hua	1924377