

Chemical Analysis Report

SO-DIST-2016-07-20-01

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

Event Description: **EBAP D-Kit**
Request ID: **RQ-2016-07-04-01**
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: Corey Anderson

For additional information please contact
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 11-AUG-2016 10:50

A handwritten signature in black ink, appearing to read "Liang Lin", is written on a light-colored, textured 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 groups are included in this report: Metals and 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: Matanzas Pass/San Carlos Is/DEP Dock

Collection Date/Time: 07/19/2016 12:14

Field ID: G2SD-JULY

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1817330	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P308324	
	SM 2320 B-97	Total Alkalinity	124		mg CaCO3/L	P308527	
	SM 2540 D-97	TSS	5	I	mg/L	P308975	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P308530	
1817331	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P308491	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.54		mg N/L	P308965	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P308728	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P308415	
	SM 5310 B-00	Organic Carbon	4.2		mg C/L	P309108	
1817332	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P308300	
1817334	EPA 200.7 Rev. 4.4	Iron	90	U	ug/L	P308654	
	EPA 200.8 Rev. 5.4	Arsenic	3.10		ug/L	P308654	
		Cadmium	0.060	U	ug/L	P308654	
		Chromium	0.95		ug/L	P308654	
		Copper	1.1	I	ug/L	P308654	
		Lead	0.25	U	ug/L	P308654	
		Nickel	0.28	I	ug/L	P308654	
		Silver	0.015	U	ug/L	P308654	
		Zinc	3.0	U	ug/L	P308654	

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: P308324

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P308654

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P308654

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.050	U	ug/L
Copper	0.10	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.050	U	ug/L
Silver	0.0050	U	ug/L
Zinc	1.0	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308491

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308965

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308728

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308415

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P308300

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

Reference Method: SM 2320 B-97
Batch ID: P308527

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

Reference Method: SM 2540 D-97
Batch ID: P308975

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P308530

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P309108

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P308654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P308654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	99.9		P	85 - 115
Cadmium	99.3		P	85 - 115
Chromium	97.6		P	85 - 115
Copper	95.6		P	85 - 115
Lead	98.3		P	85 - 115
Nickel	97.2		P	85 - 115
Silver	98.6		P	85 - 115
Zinc	99.0		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308491

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308965

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308728

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308415

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: P308300

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

Reference Method: SM 2320 B-97
Batch ID: P308527

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P308530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P309108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P308654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818882	Iron	104	104	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P308654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818882	Arsenic	105	107	P/P	70 - 130
1818882	Cadmium	99.7	100	P/P	70 - 130
1818882	Chromium	90.1	90.1	P/P	70 - 130
1818882	Copper	91.3	93.6	P/P	70 - 130
1818882	Lead	100	102	P/P	70 - 130
1818882	Nickel	94.8	96.4	P/P	70 - 130
1818882	Silver	92.9	94.1	P/P	70 - 130
1818882	Zinc	96.0	97.1	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308491

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817317	Ammonia-N	105	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817134	Kjeldahl Nitrogen	105	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817127	NO2NO3-N	101	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P308415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817134	Total-P	98.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P308300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817320	O-Phosphate-P	101	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97
 Batch ID: P308530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817437	Fluoride	97.5	98.7	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P309108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817444	Organic Carbon	92.1	92.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P308324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817156	Turbidity	0.971	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P308654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818882	Iron	0.118	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P308654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818882	Arsenic	2.08	Spike	P	0 - 20
1818882	Cadmium	0.522	Spike	P	0 - 20
1818882	Chromium	0.00832	Spike	P	0 - 20
1818882	Copper	2.40	Spike	P	0 - 20
1818882	Lead	2.09	Spike	P	0 - 20
1818882	Nickel	1.66	Spike	P	0 - 20
1818882	Silver	1.25	Spike	P	0 - 20
1818882	Zinc	1.09	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308491

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817317	Ammonia-N	1.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817134	Kjeldahl Nitrogen	3.18	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817127	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817134	Total-P	1.75	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P308300

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817320	O-Phosphate-P	0.885	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P308527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817437	Total Alkalinity	0.243	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
Batch ID: P308530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817437	Fluoride	0.947	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P309108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817444	Organic Carbon	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

* 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: A70654

Included Lab Sample IDs: 1817332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	98.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A70668

Included Lab Sample IDs: 1817330

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A70713

Included Lab Sample IDs: 1817331

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

Reference Method: SM 2320 B-97

Run ID: A70728

Included Lab Sample IDs: 1817330

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: A70728

Included Lab Sample IDs: 1817330

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A70754

Included Lab Sample IDs: 1817331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A70792

Included Lab Sample IDs: 1817331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A70820

Included Lab Sample IDs: 1817334

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A70823

Included Lab Sample IDs: 1817334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	99.0	99.9	P/P	90 - 110
Cadmium	99.3	98.8	P/P	90 - 110
Chromium	97.7	95.2	P/P	90 - 110
Copper	96.7	96.4	P/P	90 - 110
Nickel	98.3	97.3	P/P	90 - 110
Silver	97.9	96.8	P/P	90 - 110
Zinc	99.0	97.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A70910

Included Lab Sample IDs: 1817331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.6	94.2	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A70922

Included Lab Sample IDs: 1817331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	93.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A70940

Included Lab Sample IDs: 1817334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	91.9	92.3	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				0.971	
EPA 200.7 Rev. 4.4	Iron	106	104 104			0.118
EPA 200.8 Rev. 5.4	Arsenic	99.9	105 107			2.08
	Cadmium	99.3	99.7 100			0.522
	Chromium	97.6	90.1 90.1			0.0083

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 200.8 Rev. 5.4	Copper	95.6	91.3	93.6			2.40
	Lead	98.3	100	102			2.09
	Nickel	97.2	94.8	96.4			1.66
	Silver	98.6	92.9	94.1			1.25
	Zinc	99.0	96.0	97.1			1.09
EPA 350.1 Rev. 2.0	Ammonia-N	94.2	105	107			1.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	105	102			3.18
EPA 353.2 Rev. 2.0	NO2NO3-N	107	101	102			0.494
EPA 365.1 Rev. 2.0	Total-P	102	98.4	100			1.75
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	101	102			0.885
SM 2320 B-97	Total Alkalinity	103				0.243	
SM 4500 F-C-97	Fluoride	99.8	97.5	98.7			0.947
SM 5310 B-00	Organic Carbon	101	92.1	92.1			0.0

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1817330
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1817334
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1817334
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1817331
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1817331
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1817331
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1817331
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1817332
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1817330
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1817330
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1817330
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1817331

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	07/20/2016			07/20/2016 15:43	Blanca Fach	1817330
EPA 200.7 Rev. 4.4	07/20/2016	07/26/2016	Elliott D. Healy	07/29/2016	Joshua Ayres	1817334
EPA 200.8 Rev. 5.4	07/20/2016	07/26/2016	Elliott D. Healy	07/28/2016	Charles J. Peterson	1817334
	07/20/2016	07/26/2016	Elliott D. Healy	08/04/2016	Charles J. Peterson	1817334
EPA 350.1 Rev. 2.0	07/20/2016			07/22/2016	Julie Michelle Frank	1817331
EPA 351.2 Rev. 2.0	07/20/2016	08/01/2016	Martin Acosta	08/02/2016	Christopher Armour	1817331
EPA 353.2 Rev. 2.0	07/20/2016			07/27/2016	Peter D. Kaus	1817331
EPA 365.1 Rev. 2.0	07/20/2016	07/22/2016	Vijayalakshmi Reddy	07/26/2016	Lipi Saha	1817331
EPA 365.1 Rev. 2.0 dissolved	07/20/2016			07/20/2016 15:26	Julia Storbeck	1817332
SM 2320 B-97	07/20/2016			07/23/2016	Dale L. Simmons	1817330
SM 2540 D-97	07/20/2016			07/25/2016	Yijie Li	1817330
SM 4500 F-C-97	07/20/2016			07/23/2016	Dale L. Simmons	1817330
SM 5310 B-00	07/20/2016			08/02/2016	Sofia Elnemr	1817331