

Chemical Analysis Report

CEN-DIST-2017-06-16-02

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

Event Description: **Strickland Bay**
Request ID: **RQ-2017-06-12-70**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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3319 Maguire Blvd., Suite 232
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 10-JUL-2017 15:07



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: STRICKLAND BAY @ 875M EAST
 (DOWNSTREAM) OF RR CROSSING**

Collection Date/Time: 06/15/2017 12:28

Field ID: G5CE0074

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1906984	EPA 180.1 Rev. 2.0	Turbidity	7.3		NTU	P327042	
	SM 2320 B-97	Total Alkalinity	130		mg CaCO3/L	P327372	
	SM 2540 D-97	TSS	10		mg/L	P327531	
	SM 4500 F-C-97	Fluoride	0.81		mg F/L	P327379	
1906985	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P327177	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.52		mg N/L	P327075	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P327204	
	EPA 365.1 Rev. 2.0	Total-P	0.089		mg P/L	P327212	
	SM 5310 B-00	Organic Carbon	7.0		mg C/L	P327585	
1906986	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.052		mg P/L	P327003	
1906988	EPA 200.7 Rev. 4.4	Iron	410		ug/L	P327143	
	EPA 200.8 Rev. 5.4	Arsenic	2.1	I	ug/L	P327143	
		Cadmium	0.15	U	ug/L	P327143	
		Chromium	0.90	U	ug/L	P327143	
		Copper	1.5	U	ug/L	P327143	
		Lead	0.60	U	ug/L	P327143	
		Nickel	0.75	U	ug/L	P327143	
		Silver	0.075	U	ug/L	P327143	
		Zinc	15	U	ug/L	P327143	

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: P327042

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P327143

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P327143

Component	Result	Code	Units
Arsenic	0.25	U	ug/L
Cadmium	0.050	U	ug/L
Chromium	0.30	U	ug/L
Copper	0.50	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.25	U	ug/L
Silver	0.025	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P327143

Component	Result	Code	Units
Zinc	5.0	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327177

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327075

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327204

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327212

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327003

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

Reference Method: SM 2320 B-97
Batch ID: P327372

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

Reference Method: SM 2540 D-97
Batch ID: P327531

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P327379

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
 Batch ID: P327585

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: P327143

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

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P327143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	95.0		P	85 - 115
Cadmium	99.0		P	85 - 115
Chromium	98.6		P	85 - 115
Copper	97.9		P	85 - 115
Lead	99.0		P	85 - 115
Nickel	99.5		P	85 - 115
Silver	97.8		P	85 - 115
Zinc	94.4		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P327177

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	109		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P327075

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: P327204

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: P327212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.4		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P327003

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

Reference Method: SM 2320 B-97
 Batch ID: P327372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
 Batch ID: P327379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.7		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P327585

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P327143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1906988	Iron	101	102	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P327143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1906988	Arsenic	91.1	95.0	P/P	70 - 130
1906988	Cadmium	85.4	89.3	P/P	70 - 130
1906988	Chromium	94.5	98.5	P/P	70 - 130
1906988	Copper	91.3	92.1	P/P	70 - 130
1906988	Lead	102	102	P/P	70 - 130
1906988	Nickel	89.5	91.6	P/P	70 - 130
1906988	Silver	83.3	86.9	P/P	70 - 130
1906988	Zinc	80.6	83.8	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P327177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1906985	Ammonia-N	95.4	94.4	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1906891	Kjeldahl Nitrogen	104	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327204

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1906847	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907022	Total-P	100	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327003

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1906986	O-Phosphate-P	91.6	94.5	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P327379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907018	Fluoride	96.7	99.8	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P327585

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1906931	Organic Carbon	95.6	94.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P327042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906963	Turbidity	11.6	Sample	P	0 - 15

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P327143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906988	Iron	0.925	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P327143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906988	Arsenic	3.99	Spike	P	0 - 20
1906988	Cadmium	4.48	Spike	P	0 - 20
1906988	Chromium	4.15	Spike	P	0 - 20
1906988	Copper	0.883	Spike	P	0 - 20
1906988	Lead	0.294	Spike	P	0 - 20
1906988	Nickel	2.34	Spike	P	0 - 20
1906988	Silver	4.24	Spike	P	0 - 20
1906988	Zinc	3.86	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906985	Ammonia-N	0.858	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906891	Kjeldahl Nitrogen	3.76	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327204

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906847	NO2NO3-N	1.38	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907022	Total-P	2.94	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906986	O-Phosphate-P	2.01	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P327372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907018	Total Alkalinity	0.0601	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P327379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907018	Fluoride	2.44	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P327585

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906931	Organic Carbon	0.969	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: A77152
Included Lab Sample IDs: 1906986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A77166
Included Lab Sample IDs: 1906984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A77219
Included Lab Sample IDs: 1906985

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A77224
Included Lab Sample IDs: 1906985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A77248
Included Lab Sample IDs: 1906985

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A77267

Included Lab Sample IDs: 1906985

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A77282

Included Lab Sample IDs: 1906988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	102	101	P/P	95 - 105

Reference Method: SM 2320 B-97

Run ID: A77291

Included Lab Sample IDs: 1906984

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: A77291

Included Lab Sample IDs: 1906984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	96.1	98.1	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A77378

Included Lab Sample IDs: 1906985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77444

Included Lab Sample IDs: 1906988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	95.3	95.6	P/P	90 - 110
Cadmium	98.7	96.5	P/P	90 - 110
Chromium	99.7	99.7	P/P	90 - 110
Copper	98.1	97.9	P/P	90 - 110
Lead	101	100	P/P	90 - 110
Nickel	98.9	99.2	P/P	90 - 110
Silver	97.6	96.6	P/P	90 - 110
Zinc	96.8	96.3	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		MS
						SMP	RSD	
EPA 180.1 Rev. 2.0	Turbidity					11.6		
EPA 200.7 Rev. 4.4	Iron	104	101	102				0.925
EPA 200.8 Rev. 5.4	Arsenic	95.0	91.1	95.0				3.99
	Cadmium	99.0	85.4	89.3				4.48
	Chromium	98.6	94.5	98.5				4.15
	Copper	97.9	91.3	92.1				0.883
	Lead	99.0	102	102				0.294
	Nickel	99.5	89.5	91.6				2.34
	Silver	97.8	83.3	86.9				4.24
	Zinc	94.4	80.6	83.8				3.86
EPA 350.1 Rev. 2.0	Ammonia-N	109	95.4	94.4				0.858
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	104	109				3.76
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	102	104				1.38
EPA 365.1 Rev. 2.0	Total-P	96.4	100	97.4				2.94
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	91.6	94.5				2.01
SM 2320 B-97	Total Alkalinity	104				0.0601		
SM 4500 F-C-97	Fluoride	94.7	96.7	99.8				2.44
SM 5310 B-00	Organic Carbon	95.8	95.6	94.6				0.969

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1906984
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1906988
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1906988
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1906985
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1906985
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1906985
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1906985
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1906986
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1906984
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1906984
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1906984
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1906985

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	06/16/2017			06/16/2017 16:39	Blanca Fach	1906984
EPA 200.7 Rev. 4.4	06/16/2017	06/20/2017	Elliott D. Healy	06/22/2017	Betina Topolski	1906988
EPA 200.8 Rev. 5.4	06/16/2017	06/20/2017	Elliott D. Healy	06/29/2017	Robert K Palmer	1906988
EPA 350.1 Rev. 2.0	06/16/2017			06/20/2017	Sofia Elnemr	1906985
EPA 351.2 Rev. 2.0	06/16/2017	06/20/2017	Adrian Shelby	06/21/2017	Joseph Suarez	1906985
EPA 353.2 Rev. 2.0	06/16/2017			06/20/2017	Beverly Y. Sanders	1906985
EPA 365.1 Rev. 2.0	06/16/2017	06/21/2017	Vijayalakshmi Reddy	06/22/2017	Lipi Saha	1906985
EPA 365.1 Rev. 2.0 dissolved	06/16/2017			06/16/2017 15:25	Anthony C. Onicha	1906986
SM 2320 B-97	06/16/2017			06/22/2017	Dale L. Simmons	1906984
SM 2540 D-97	06/16/2017			06/21/2017	Yijie Li	1906984
SM 4500 F-C-97	06/16/2017			06/22/2017	Dale L. Simmons	1906984
SM 5310 B-00	06/16/2017			06/28/2017	Ping Hua	1906985