

Chemical Analysis Report

SO-DIST-2016-09-07-01

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

Event Description: **WBID 2056A**
Request ID: **RQ-2016-07-18-02**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 23-SEP-2016 13:42



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: CHARLOTTE HARBOR

Collection Date/Time: 09/06/2016 07:17

Field ID: CHV006

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1829140	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P310765	
	SM 2120 B	Color (true)	140		PCU	P310758	
	SM 2320 B-97	Total Alkalinity	65		mg CaCO3/L	P310954	
	SM 2540 D-97	TSS	2	I	mg/L	P311294	
	SM 4500 F-C-97	Fluoride	0.36		mg F/L	P311194	
1829141	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P311074	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.98		mg N/L	P310962	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P311333	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P311109	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P311054	
1829142	EPA 200.7 Rev. 4.4	Iron	330		ug/L	P310911	
	EPA 200.8 Rev. 5.4	Arsenic	1.62		ug/L	P310911	
		Cadmium	0.060	U	ug/L	P310911	
		Chromium	0.48	I	ug/L	P310911	
		Copper	1.3		ug/L	P310911	
		Lead	0.21	I	ug/L	P310911	
		Nickel	0.46	I	ug/L	P310911	
		Silver	0.015	U	ug/L	P310911	
		Zinc	3.0	U	ug/L	P310911	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P310765

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P310911

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P310911

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: P311074

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310962

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311333

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P311109

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

Reference Method: SM 2120 B
Batch ID: P310758

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P310954

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

Reference Method: SM 2540 D-97
Batch ID: P311294

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P311194

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P311054

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: P310911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	98.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P310911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	102		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	100		P	85 - 115
Copper	98.4		P	85 - 115
Lead	101		P	85 - 115
Nickel	98.2		P	85 - 115
Silver	99.8		P	85 - 115
Zinc	99.6		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311074

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310962

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311333

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: P311109

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

Reference Method: SM 2320 B-97
Batch ID: P310954

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

Reference Method: SM 4500 F-C-97
Batch ID: P311194

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P311054

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P310911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1829142	Iron	107	106	P/P	70 - 130
1829183	Iron	95.8		P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P310911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1829142	Arsenic	105	104	P/P	70 - 130
1829142	Cadmium	96.2	95.9	P/P	70 - 130
1829142	Chromium	86.5	84.7	P/P	70 - 130
1829142	Copper	94.2	91.9	P/P	70 - 130
1829142	Lead	104	102	P/P	70 - 130
1829142	Nickel	89.9	91.5	P/P	70 - 130
1829142	Silver	92.7	92.5	P/P	70 - 130
1829142	Zinc	94.0	93.8	P/P	70 - 130
1829183	Arsenic	104		P	70 - 130
1829183	Cadmium	90.7		P	70 - 130
1829183	Chromium	81.8		P	70 - 130
1829183	Copper	92.6		P	70 - 130
1829183	Lead	105		P	70 - 130
1829183	Nickel	93.2		P	70 - 130
1829183	Silver	92.4		P	70 - 130
1829183	Zinc	91.0		P	70 - 130

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1829067	Kjeldahl Nitrogen	94.0	94.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1829056	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P311109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1829058	Total-P	95.6	94.4	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P311194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1829410	Fluoride	96.4	97.0	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P311054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1827967	Organic Carbon	102	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P310765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829088	Turbidity	4.27	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P310911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829142	Iron	0.518	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P310911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829142	Arsenic	1.05	Spike	P	0 - 20
1829142	Cadmium	0.325	Spike	P	0 - 20
1829142	Chromium	1.99	Spike	P	0 - 20
1829142	Copper	2.34	Spike	P	0 - 20
1829142	Lead	1.17	Spike	P	0 - 20
1829142	Nickel	1.65	Spike	P	0 - 20
1829142	Silver	0.220	Spike	P	0 - 20
1829142	Zinc	0.299	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829141	Ammonia-N	0.913	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829067	Kjeldahl Nitrogen	0.0631	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829056	NO2NO3-N	0.319	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P311109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829058	Total-P	1.20	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P310758

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829044	Color (true)	3.95	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P310954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1828722	Total Alkalinity	0.392	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
Batch ID: P311194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1829410	Fluoride	0.470	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P311054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1827967	Organic Carbon	0.245	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

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
Run ID: A71468
Included Lab Sample IDs: 1829140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.8	99.8	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A71470
Included Lab Sample IDs: 1829140

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

Reference Method: SM 2320 B-97
Run ID: A71541
Included Lab Sample IDs: 1829140

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A71542
Included Lab Sample IDs: 1829142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	101	100	P/P	90 - 110
Cadmium	99.9	98.9	P/P	90 - 110
Chromium	95.5	98.0	P/P	90 - 110
Copper	99.1	97.4	P/P	90 - 110
Lead	99.6	99.0	P/P	90 - 110
Silver	99.1	98.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A71577
Included Lab Sample IDs: 1829141

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

Reference Method: SM 5310 B-00
Run ID: A71584
Included Lab Sample IDs: 1829141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	104	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A71596
Included Lab Sample IDs: 1829141

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A71623

Included Lab Sample IDs: 1829141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.1	95.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A71639

Included Lab Sample IDs: 1829140

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A71647

Included Lab Sample IDs: 1829141

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A71665

Included Lab Sample IDs: 1829142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	96.7	96.3	P/P	90 - 110
Zinc	99.2	97.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A71744

Included Lab Sample IDs: 1829142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	102	103	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				4.27	
EPA 200.7 Rev. 4.4	Iron	98.6	95.8 107 106			0.518
EPA 200.8 Rev. 5.4	Arsenic	102	105 104 104			1.05
	Cadmium	101	96.2 95.9 90.7			0.325
	Chromium	100	86.5 84.7 81.8			1.99
	Copper	98.4	94.2 91.9 92.6			2.34
	Lead	101	104 102 105			1.17
	Nickel	98.2	89.9 91.5 93.2			1.65
	Silver	99.8	92.7 92.5 92.4			0.220
	Zinc	99.6	94.0 93.8 91.0			0.299

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 350.1 Rev. 2.0	Ammonia-N	101					0.913
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109	94.0	94.0			0.0631
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	106	106			0.319
EPA 365.1 Rev. 2.0	Total-P	100	95.6	94.4			1.20
SM 2120 B	Color (true)					3.95	
SM 2320 B-97	Total Alkalinity	103				0.392	
SM 4500 F-C-97	Fluoride	99.8	96.4	97.0			0.470
SM 5310 B-00	Organic Carbon	104	102	102			0.245

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1829140
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1829142
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1829142
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1829141
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1829141
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1829141
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1829141
SM 2120 B / E31780	True Color measured at 450 nm	1829140
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1829140
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1829140
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1829140
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1829141

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	09/07/2016			09/07/2016 15:52	Sima Feizi	1829140
EPA 200.7 Rev. 4.4	09/07/2016	09/09/2016	Elliott D. Healy	09/20/2016	Joshua Ayres	1829142
EPA 200.8 Rev. 5.4	09/07/2016	09/09/2016	Elliott D. Healy	09/12/2016	Charles J. Peterson	1829142
	09/07/2016	09/09/2016	Elliott D. Healy	09/15/2016	Charles J. Peterson	1829142
EPA 350.1 Rev. 2.0	09/07/2016			09/08/2016	Joseph Suarez	1829141
EPA 351.2 Rev. 2.0	09/07/2016	09/12/2016	Adrian Shelby	09/14/2016	Christopher Armour	1829141
EPA 353.2 Rev. 2.0	09/07/2016			09/13/2016	Beverly Y. Sanders	1829141
EPA 365.1 Rev. 2.0	09/07/2016	09/14/2016	Vijayalakshmi Reddy	09/15/2016	Lipi Saha	1829141
SM 2120 B	09/07/2016			09/07/2016 17:35	Julie Michelle Frank	1829140
SM 2320 B-97	09/07/2016			09/08/2016	Dale L. Simmons	1829140
SM 2540 D-97	09/07/2016			09/09/2016	Yijie Li	1829140
SM 4500 F-C-97	09/07/2016			09/14/2016	Dale L. Simmons	1829140
SM 5310 B-00	09/07/2016			09/13/2016	Sofia Elnemr	1829141