

Chemical Analysis Report

SW-DIST-2018-01-05-01

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

Event Description: **Terra Ceia**
Request ID: **RQ-2018-01-01-53**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Judy Ashton

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 26-JAN-2018 15:38

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 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: TERRA CEIA BAY

Collection Date/Time: 01/04/2018 12:30

Field ID: G1SW0102

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1957714	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P337884	
	SM 2320 B-97	Total Alkalinity	126	A	mg CaCO3/L	P338226	
	SM 2540 D-97	TSS	8	IA	mg/L	P338293	
	SM 4500 F-C-97	Fluoride	1.2	J	mg F/L	P338231	MS
1957715	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P337923	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P338002	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P338280	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P337906	
	SM 5310 B-00	Organic Carbon	4.2		mg C/L	P338260	
1957716	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.066		mg P/L	P337887	
1957719	EPA 200.7 Rev. 4.4	Iron	120	U	ug/L	P337966	
	EPA 200.8 Rev. 5.4	Arsenic	2.66		ug/L	P337966	
		Cadmium	0.080	U	ug/L	P337966	
		Chromium	1.6	U	ug/L	P337966	
		Copper	1.1	I	ug/L	P337966	
		Lead	0.40	U	ug/L	P337966	
		Nickel	0.80	U	ug/L	P337966	
		Silver	0.040	U	ug/L	P337966	
		Zinc	4.0	U	ug/L	P337966	

Ref. Method and Comment:

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

SM 4500 F-C-97: Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P337884

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P337966

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P337966

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P337966

Component	Result	Code	Units
Zinc	1.0	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P337923

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338002

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338280

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P337906

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P337887

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

Reference Method: SM 2320 B-97
Batch ID: P338226

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

Reference Method: SM 2540 D-97
Batch ID: P338293

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P338231

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: P338260

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: P337966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P337966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	104		P	85 - 115
Cadmium	109		P	85 - 115
Chromium	106		P	85 - 115
Copper	97.2		P	85 - 115
Lead	105		P	85 - 115
Nickel	100		P	85 - 115
Silver	108		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P337923

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338280

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: P337906

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P337887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	94.1		P	90 - 110

Reference Method: SM 2320 B-97
 Batch ID: P338226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97
 Batch ID: P338231

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.8		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P338260

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P337966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957719	Iron	102	101	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P337966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957719	Arsenic	115	113	P/P	70 - 130
1957719	Cadmium	97.3	93.9	P/P	70 - 130
1957719	Chromium	83.7	81.1	P/P	70 - 130
1957719	Copper	102	102	P/P	70 - 130
1957719	Lead	106	109	P/P	70 - 130
1957719	Nickel	113	111	P/P	70 - 130
1957719	Silver	99.0	97.5	P/P	70 - 130
1957719	Zinc	92.3	91.1	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P337923

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957715	Ammonia-N	103	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957715	Kjeldahl Nitrogen	104	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957715	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P337906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957715	Total-P	93.0	92.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P337887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957716	O-Phosphate-P	97.0	98.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P338231

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957714	Fluoride	90.2	93.1	F/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P338260

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957715	Organic Carbon	97.2	96.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P337884

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957583	Turbidity	0.321	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P337966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957719	Iron	0.586	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P337966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957719	Arsenic	1.58	Spike	P	0 - 20
1957719	Cadmium	3.65	Spike	P	0 - 20
1957719	Chromium	3.13	Spike	P	0 - 20
1957719	Copper	0.386	Spike	P	0 - 20
1957719	Lead	3.08	Spike	P	0 - 20
1957719	Nickel	1.42	Spike	P	0 - 20
1957719	Silver	1.46	Spike	P	0 - 20
1957719	Zinc	1.29	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P337923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957715	Ammonia-N	1.25	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957715	Kjeldahl Nitrogen	1.03	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957715	NO2NO3-N	0.489	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P337906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957715	Total-P	0.738	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P337887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957716	O-Phosphate-P	1.10	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P338226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957714	Total Alkalinity	0.492	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P338231

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957714	Fluoride	1.93	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P338260

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957715	Organic Carbon	0.792	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 180.1 Rev. 2.0
Run ID: A81316
Included Lab Sample IDs: 1957714

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A81317
Included Lab Sample IDs: 1957716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	90.0	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A81332
Included Lab Sample IDs: 1957715

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A81391
Included Lab Sample IDs: 1957715

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A81392
Included Lab Sample IDs: 1957719

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81404

Included Lab Sample IDs: 1957715

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A81450

Included Lab Sample IDs: 1957719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	103	104	P/P	90 - 110
Cadmium	103	104	P/P	90 - 110
Chromium	97.4	96.3	P/P	90 - 110
Copper	101	101	P/P	90 - 110
Lead	101	100	P/P	90 - 110
Nickel	102	101	P/P	90 - 110
Silver	104	104	P/P	90 - 110
Zinc	104	104	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A81452

Included Lab Sample IDs: 1957714

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.9	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A81452

Included Lab Sample IDs: 1957714

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.1	98.6	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A81463

Included Lab Sample IDs: 1957715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81468

Included Lab Sample IDs: 1957715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO ₂ NO ₃ -N	97.5	97.5	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					0.321	
EPA 200.7 Rev. 4.4	Iron	102	101	102			0.586
EPA 200.8 Rev. 5.4	Arsenic	104	115	113			1.58
	Cadmium	109	97.3	93.9			3.65
	Chromium	106	83.7	81.1			3.13
	Copper	97.2	102	102			0.386
	Lead	105	106	109			3.08
	Nickel	100	113	111			1.42
	Silver	108	99.0	97.5			1.46
	Zinc	103	92.3	91.1			1.29
EPA 350.1 Rev. 2.0	Ammonia-N	105	103	101			1.25
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	104	102			1.03
EPA 353.2 Rev. 2.0	NO2NO3-N	100	102	102			0.489
EPA 365.1 Rev. 2.0	Total-P	102	93.0	92.3			0.738
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	94.1	97.0	98.8			1.10
SM 2320 B-97	Total Alkalinity	101				0.492	
SM 4500 F-C-97	Fluoride	94.8	90.2	93.1			1.93
SM 5310 B-00	Organic Carbon	98.2	97.2	96.4			0.792

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1957714
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1957719
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1957719
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1957715
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1957715
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1957715
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1957715
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1957716
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1957714
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1957714
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1957714
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1957715

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	01/05/2018			01/05/2018 14:46	DeAsia Armster	1957714
EPA 200.7 Rev. 4.4	01/05/2018	01/09/2018	Elliott D. Healy	01/10/2018	Betina Topolski	1957719
EPA 200.8 Rev. 5.4	01/05/2018	01/09/2018	Elliott D. Healy	01/12/2018	Nadine Brooks	1957719
EPA 350.1 Rev. 2.0	01/05/2018			01/08/2018	Sofia Elnemr	1957715
EPA 351.2 Rev. 2.0	01/05/2018	01/10/2018	Adrian Shelby	01/11/2018	Joseph Suarez	1957715
EPA 353.2 Rev. 2.0	01/05/2018			01/16/2018	Beverly Y. Sanders	1957715
EPA 365.1 Rev. 2.0	01/05/2018	01/08/2018	Sima Feizi	01/10/2018	Lipi Saha	1957715
EPA 365.1 Rev. 2.0 dissolved	01/05/2018			01/05/2018 15:07	Megan Treadwell	1957716
SM 2320 B-97	01/05/2018			01/12/2018	Dale L. Simmons	1957714
SM 2540 D-97	01/05/2018			01/10/2018	Yijie Li	1957714
SM 4500 F-C-97	01/05/2018			01/12/2018	Dale L. Simmons	1957714
SM 5310 B-00	01/05/2018			01/11/2018	Megan Treadwell	1957715