

Chemical Analysis Report

SO-DIST-2018-08-02-02

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

Event Description: **BFWW**
Request ID: **RQ-2018-07-09-31**
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
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 22-AUG-2018 15:55

A handwritten signature in black ink, appearing to read "Liang Lin", 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: ENRE9 Lostmans Bay

Collection Date/Time: 08/01/2018 11:40

Field ID: G5SD0041

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2012770	EPA 180.1 Rev. 2.0	Turbidity	4.9		NTU	P349587	
	SM 2320 B-97	Total Alkalinity	143		mg CaCO3/L	P350017	
	SM 2540 D-97	TSS	6	I	mg/L	P349820	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P350020	
2012773	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P349688	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P349720	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.026		mg N/L	P349610	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P349761	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P349849	
2012776	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349579	

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: ENRE12 Lostmans Bay

Collection Date/Time: 08/01/2018 11:47

Field ID: G5SD0078

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2012771	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P349587	
	SM 2320 B-97	Total Alkalinity	141		mg CaCO3/L	P350017	
	SM 2540 D-97	TSS	5	I	mg/L	P349820	
	SM 4500 F-C-97	Fluoride	0.26		mg F/L	P350020	
2012774	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P349688	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P349720	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.025		mg N/L	P349610	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P349761	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P349849	
2012777	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349579	

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: ENRE 9 Harney River

Collection Date/Time: 08/01/2018 12:45

Field ID: G5SD0040

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2012772	EPA 180.1 Rev. 2.0	Turbidity	4.0	A	NTU	P349588	
	SM 2320 B-97	Total Alkalinity	190	A	mg CaCO3/L	P350107	
	SM 2540 D-97	TSS	2	I	mg/L	P349820	
	SM 4500 F-C-97	Fluoride	0.36		mg F/L	P350111	
2012775	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P349688	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P349720	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.022		mg N/L	P349610	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P349761	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P349849	
2012778	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P349579	

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: P349587

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349588

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349688

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349720

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349610

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349761

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349579

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

Reference Method: SM 2320 B-97
Batch ID: P350017

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

Reference Method: SM 2320 B-97
Batch ID: P350107

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P349820

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P350020

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P350111

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P349849

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: P349688

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P349720

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: P349610

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: P349761

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P349579

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

Reference Method: SM 2320 B-97
 Batch ID: P350017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 107

Reference Method: SM 2320 B-97
 Batch ID: P350107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 107

Reference Method: SM 4500 F-C-97
 Batch ID: P350020

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	91 - 105

Reference Method: SM 4500 F-C-97
 Batch ID: P350111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	91 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P349849

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349688

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011613	Ammonia-N	105	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012775	Kjeldahl Nitrogen	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349610

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012773	NO2NO3-N	99.6	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2013659	Total-P	98.8	96.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349579

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012776	O-Phosphate-P	93.3	95.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P350020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012921	Fluoride	97.8	97.8	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P350111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012772	Fluoride	98.5	98.5	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P349849

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012656	Organic Carbon	96.0	94.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012710	Turbidity	6.28	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012772	Turbidity	0.494	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011613	Ammonia-N	3.79	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012775	Kjeldahl Nitrogen	0.289	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349610

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012773	NO2NO3-N	0.885	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2013659	Total-P	2.38	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012776	O-Phosphate-P	2.12	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P350017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012921	Total Alkalinity	0.485	Sample	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P350107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012772	Total Alkalinity	0.231	Sample	P	0 - 1.6

Reference Method: SM 4500 F-C-97
Batch ID: P350020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012921	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P350111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012772	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P349849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012656	Organic Carbon	0.869	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: A85654

Included Lab Sample IDs: 2012776, 2012777, 2012778

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.1	96.4	P/P	90 - 110
O-Phosphate-P	99.0	97.0	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A85657

Included Lab Sample IDs: 2012770, 2012771, 2012772

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105
Turbidity	102	103	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A85676

Included Lab Sample IDs: 2012773, 2012774, 2012775

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85703

Included Lab Sample IDs: 2012773, 2012774, 2012775

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85745

Included Lab Sample IDs: 2012773, 2012774, 2012775

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85746

Included Lab Sample IDs: 2012773, 2012774, 2012775

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

Reference Method: SM 5310 B-00

Run ID: A85775

Included Lab Sample IDs: 2012773, 2012774, 2012775

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	96.8	P/P	90 - 110
Organic Carbon	97.8	97.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A85838

Included Lab Sample IDs: 2012770, 2012771

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: A85838

Included Lab Sample IDs: 2012770, 2012771

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

Reference Method: SM 2320 B-97

Run ID: A85868

Included Lab Sample IDs: 2012772

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: A85868

Included Lab Sample IDs: 2012772

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	100	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	
EPA 180.1 Rev. 2.0	Turbidity					6.28	
	Turbidity					0.494	
EPA 350.1 Rev. 2.0	Ammonia-N	102	105	101			3.79
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	102	102			0.289
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	99.6	101			0.885
EPA 365.1 Rev. 2.0	Total-P	98.4	98.8	96.3			2.38
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.2	93.3	95.3			2.12
SM 2320 B-97	Total Alkalinity	103				0.485	
	Total Alkalinity	103				0.231	
SM 4500 F-C-97	Fluoride	97.8	97.8	97.8			0.0
	Fluoride	97.4	98.5	98.5			0.0
SM 5310 B-00	Organic Carbon	96.4	96.0	94.9			0.869

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2012770, 2012771, 2012772
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2012773, 2012774, 2012775
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2012773, 2012774, 2012775
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2012773, 2012774, 2012775
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2012773, 2012774, 2012775
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2012776, 2012777, 2012778
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2012770, 2012771, 2012772
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2012770, 2012771, 2012772
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2012770, 2012771, 2012772
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2012773, 2012774, 2012775

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	08/02/2018			08/02/2018 16:39	William L. Brown IV	2012770, 2012771, 2012772
EPA 350.1 Rev. 2.0	08/02/2018			08/06/2018 15:55	Julia Storbeck	2012773
	08/02/2018			08/06/2018 15:57	Julia Storbeck	2012774
	08/02/2018			08/06/2018 15:58	Julia Storbeck	2012775
EPA 351.2 Rev. 2.0	08/02/2018	08/07/2018 15:30	Adrian Shelby	08/08/2018 12:34	Joseph Suarez	2012773
	08/02/2018	08/07/2018 15:30	Adrian Shelby	08/08/2018 12:36	Joseph Suarez	2012774
	08/02/2018	08/07/2018 15:30	Adrian Shelby	08/08/2018 12:37	Joseph Suarez	2012775
EPA 353.2 Rev. 2.0	08/02/2018			08/03/2018 12:13	Lauren Bottorf	2012773
	08/02/2018			08/03/2018 12:20	Lauren Bottorf	2012774
	08/02/2018			08/03/2018 12:21	Lauren Bottorf	2012775
EPA 365.1 Rev. 2.0	08/02/2018	08/07/2018 12:35	Sima Feizi	08/08/2018 12:46	Beverly Y. Sanders	2012773
	08/02/2018	08/07/2018 12:35	Sima Feizi	08/08/2018 12:47	Beverly Y. Sanders	2012774
	08/02/2018	08/07/2018 12:35	Sima Feizi	08/08/2018 12:48	Beverly Y. Sanders	2012775
EPA 365.1 Rev. 2.0 dissolved	08/02/2018			08/02/2018 15:28	Julia Storbeck	2012776
	08/02/2018			08/02/2018 15:53	Julia Storbeck	2012777, 2012778
SM 2320 B-97	08/02/2018			08/10/2018 14:55	Dale L. Simmons	2012771
	08/02/2018			08/10/2018 15:06	Dale L. Simmons	2012770
	08/02/2018			08/14/2018 13:18	Dale L. Simmons	2012772
SM 2540 D-97	08/02/2018			08/03/2018 17:05	William L. Brown IV	2012770, 2012771, 2012772
SM 4500 F-C-97	08/02/2018			08/10/2018 14:55	Dale L. Simmons	2012771
	08/02/2018			08/10/2018 15:06	Dale L. Simmons	2012770
	08/02/2018			08/14/2018 12:05	Dale L. Simmons	2012772
SM 5310 B-00	08/02/2018			08/07/2018 19:59	Julia Storbeck	2012774
	08/02/2018			08/08/2018 00:25	Julia Storbeck	2012773
	08/02/2018			08/08/2018 00:39	Julia Storbeck	2012775