Chemical Analysis Report

SO-DIST-2023-05-16-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **2023 SMP: Down the Hatchee**
Request ID: **RQ-2023-05-15-52**
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: Monica Jaeger

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 01-JUN-2023 08:58

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 by the Florida Department of Health Environmental Laboratory Certification Program 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: CALOOSA ABOVE BRIDGE ST **Collection Date/Time: 05/15/2023 08:30**

Field ID: G3SD0178 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2409811	DEP SOP: NU-094-1	Color (true)	39		PCU	P429920	
	EPA 180.1 Rev. 2.0	Turbidity	9.1		NTU	P429917	
	EPA 300.0 Rev. 2.1	Chloride	54		mg Cl/L	P430144	
		Sulfate	22		mg SO4/L	P430146	
	SM 2320 B-2011	Total Alkalinity	111		mg CaCO3/L	P430283	
	SM 2540 C-2015	TDS	258		mg/L	P430416	
	SM 2540 D-2015	TSS	12		mg/L	P430221	
	SM 4500-F- C-2011	Fluoride	0.19		mg F/L	P430284	
2409813	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P430327	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P430046	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.032		mg N/L	P430229	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P429969	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P430226	

Ref. Method and Comment:
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CALOOSAHATCHEE RIVER ABOVE S 78 **Collection Date/Time: 05/15/2023 09:10**

Field ID: G3SD0150 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2409812	DEP SOP: NU-094-1	Color (true)	63	A	PCU	P429921	
	EPA 180.1 Rev. 2.0	Turbidity	11	A	NTU	P429917	
	EPA 300.0 Rev. 2.1	Chloride	53		mg Cl/L	P430144	
		Sulfate	23		mg SO4/L	P430146	
	SM 2320 B-2011	Total Alkalinity	112		mg CaCO3/L	P430283	
	SM 2540 C-2015	TDS	297		mg/L	P430416	
	SM 2540 D-2015	TSS	14		mg/L	P430221	
	SM 4500-F- C-2011	Fluoride	0.19		mg F/L	P430284	
2409814	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P430327	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P430046	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.032		mg N/L	P430229	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P429969	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P430226	

Ref. Method and Comment:
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P429920

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P429921

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429917

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430144

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430146

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430327

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430046

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430229

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429969

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P430283

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

Reference Method: SM 2540 C-2015
Batch ID: P430416

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P430221

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P430284

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P430226

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P429920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P429921

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429917

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430144

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430146

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430046

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430229

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: P429969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.4		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P430283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.4		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P430416

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.1		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P430221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P430284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409578	Chloride	99.5		P	90 - 110
2409764	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409578	Sulfate	98.1		P	90 - 110
2409764	Sulfate	98.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409813	Ammonia-N	94.2	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409787	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P430284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409576	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409757	Organic Carbon	98.0	96.5	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P429920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409790	Color (true)	0.302	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P429921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409812	Color (true)	5.83	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429917

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409812	Turbidity	1.87	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409578	Chloride	1.30	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409578	Sulfate	1.59	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409813	Ammonia-N	2.58	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409759	Kjeldahl Nitrogen	4.83	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409787	NO2NO3-N	0.499	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409759	Total-P	0.675	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P430283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409576	Total Alkalinity	0.801	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P430416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409745	TDS	4.72	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P430221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409745	TSS	3.31	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P430284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409576	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P430226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409757	Organic Carbon	1.26	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119194
Included Lab Sample IDs: 2409811, 2409812

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

Reference Method: DEP SOP: NU-094-1
Run ID: A119195
Included Lab Sample IDs: 2409811, 2409812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119211
Included Lab Sample IDs: 2409811, 2409812

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119250
Included Lab Sample IDs: 2409813, 2409814

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119280
Included Lab Sample IDs: 2409813, 2409814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	106	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A119341
Included Lab Sample IDs: 2409813, 2409814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.5	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119342
Included Lab Sample IDs: 2409813, 2409814

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

Reference Method: SM 2320 B-2011
Run ID: A119359
Included Lab Sample IDs: 2409811, 2409812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	98.5	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A119359
Included Lab Sample IDs: 2409811, 2409812

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119375
Included Lab Sample IDs: 2409813, 2409814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	99.6	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		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	102				0.302	
	Color (true)	102				5.83	
EPA 180.1 Rev. 2.0	Turbidity	99.5				1.87	
EPA 300.0 Rev. 2.1	Chloride	100	99.5	102		1.30	
	Sulfate	101	98.1	98.8		1.59	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	94.2	97.8			2.58
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102					4.83
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	100			0.499
EPA 365.1 Rev. 2.0	Total-P	99.4					0.675
SM 2320 B-2011	Total Alkalinity	98.4				0.801	
SM 2540 C-2015	TDS	93.1				4.72	
SM 2540 D-2015	TSS	93.8				3.31	
SM 4500-F- C-2011	Fluoride	102	102	102			0.0
SM 5310 B-2011	Organic Carbon	97.0	98.0	96.5			1.26

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2409811, 2409812
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2409811, 2409812
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2409811, 2409812
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2409811, 2409812
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2409813, 2409814
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2409813, 2409814
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2409813, 2409814
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2409813, 2409814
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2409811, 2409812
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2409811, 2409812
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2409811, 2409812
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2409811, 2409812
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2409813, 2409814

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	05/16/2023			05/16/2023 13:48	Chandler E Cox	2409811
	05/16/2023			05/16/2023 13:50	Chandler E Cox	2409812
EPA 180.1 Rev. 2.0	05/16/2023			05/16/2023 12:59	Alexis Price	2409811
	05/16/2023			05/16/2023 13:01	Alexis Price	2409812
EPA 300.0 Rev. 2.1	05/16/2023			05/18/2023 16:48	James L Waggerby	2409811
	05/16/2023			05/18/2023 17:03	James L Waggerby	2409812
EPA 350.1 Rev. 2.0	05/16/2023			05/24/2023 11:37	Ping Hua	2409813
	05/16/2023			05/24/2023 11:41	Ping Hua	2409814
EPA 351.2 Rev. 2.0	05/16/2023	05/18/2023 11:54	Simonne.V. Calhoun	05/19/2023 11:44	Ping Hua	2409813
	05/16/2023	05/18/2023 11:54	Simonne.V. Calhoun	05/19/2023 11:46	Ping Hua	2409814
EPA 353.2 Rev. 2.0	05/16/2023			05/23/2023 10:15	Beverly Y. Sanders	2409813
	05/16/2023			05/23/2023 10:16	Beverly Y. Sanders	2409814
EPA 365.1 Rev. 2.0	05/16/2023	05/17/2023 12:30	Alexis Price	05/18/2023 12:38	Chandler E Cox	2409813
	05/16/2023	05/17/2023 12:30	Alexis Price	05/18/2023 12:39	Chandler E Cox	2409814
SM 2320 B-2011	05/16/2023			05/23/2023 23:57	Dale L. Simmons	2409811
	05/16/2023			05/24/2023 00:11	Dale L. Simmons	2409812
SM 2540 C-2015	05/16/2023			05/17/2023 16:36	Yijie Li	2409811, 2409812
SM 2540 D-2015	05/16/2023			05/17/2023 16:36	Yijie Li	2409811, 2409812
SM 4500-F- C-2011	05/16/2023			05/23/2023 23:57	Dale L. Simmons	2409811
	05/16/2023			05/24/2023 00:11	Dale L. Simmons	2409812
SM 5310 B-2011	05/16/2023			05/22/2023 18:45	Elise M. Gillis	2409813
	05/16/2023			05/22/2023 19:00	Elise M. Gillis	2409814