Chemical Analysis Report

SO-DIST-2022-08-12-01

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

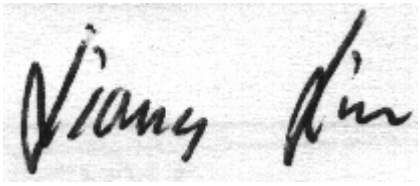
Event Description: **Caloosa Creeks**
Request ID: **RQ-2022-08-08-05**
Customer: **SO-DIST**
Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Gary Snorek

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

Certified by: Liang Lin, Environmental Administrator

Date Certified: 08-SEP-2022 11:04



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: Nine Mile Canal @ SR 80 **Collection Date/Time: 08/11/2022 09:35**

Field ID: G3SD0088 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348903	DEP SOP: NU-094-1	Color (true)	120	A	PCU	P418053	
	SM 2320 B-2011	Total Alkalinity	137		mg CaCO3/L	P418314	
	SM 2540 D-2011	TSS	7	I	mg/L	P418460	
	SM 4500-F- C-2011	Fluoride	0.21		mg F/L	P418317	
2348905	SM 5310 B-2011 dissolved	Organic Carbon	23		mg C/L	P418476	
2348907	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P418737	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P418282	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P418148	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P418259	
	SM 5310 B-2011	Organic Carbon	23		mg C/L	P418476	
2348909	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P418058	

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.

Sample Location: Bee Branch @LoblollyBay **Collection Date/Time: 08/11/2022 10:20**

Field ID: G3SD0085 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348904	DEP SOP: NU-094-1	Color (true)	480		PCU	P418053	
	SM 2320 B-2011	Total Alkalinity	12		mg CaCO3/L	P418314	
	SM 2540 D-2011	TSS	2	I	mg/L	P418460	
	SM 4500-F- C-2011	Fluoride	0.088	I	mg F/L	P418317	
2348906	SM 5310 B-2011 dissolved	Organic Carbon	45		mg C/L	P418476	
2348908	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P418415	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P418283	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.034		mg N/L	P418148	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P418259	
	SM 5310 B-2011	Organic Carbon	45		mg C/L	P418476	
2348910	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.086		mg P/L	P418058	

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P418053

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418415

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418737

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418282

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418283

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418148

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418259

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418058

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

Reference Method: SM 2320 B-2011
Batch ID: P418314

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P418460

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P418476

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

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P418476

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: P418053

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418415

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418282

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418283

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: P418148

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	94.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418259

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418058

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.3		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P418314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.5		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P418476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348813	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348907	Ammonia-N	100	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348886	Kjeldahl Nitrogen	105	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348813	NO2NO3-N	91.4	91.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349402	Total-P	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348909	O-Phosphate-P	98.6	99.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349241	Fluoride	97.7	97.7	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349246	Organic Carbon	95.1	95.4	P/P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P418476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349246	Organic Carbon	95.1	95.4	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348903	Color (true)	0.347	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348813	Ammonia-N	0.539	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348907	Ammonia-N	2.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348302	Kjeldahl Nitrogen	0.415	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348886	Kjeldahl Nitrogen	0.760	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348813	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349402	Total-P	0.811	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348909	O-Phosphate-P	0.701	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P418314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349241	Total Alkalinity	0.106	Sample	P	0 - 3.8

Reference Method: SM 2540 D-2011
Batch ID: P418460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348812	TSS	7.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349241	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P418476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349246	Organic Carbon	0.206	Spike	P	0 - 20

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P418476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349246	Organic Carbon	0.206	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A114061
Included Lab Sample IDs: 2348903, 2348904

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	104	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A114066
Included Lab Sample IDs: 2348909, 2348910

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114122
Included Lab Sample IDs: 2348907, 2348908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	94.5	93.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114185
Included Lab Sample IDs: 2348907, 2348908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	98.4	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A114186
Included Lab Sample IDs: 2348903, 2348904

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	97.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114186
Included Lab Sample IDs: 2348903, 2348904

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114221
Included Lab Sample IDs: 2348908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	107	106	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A114248
Included Lab Sample IDs: 2348907, 2348908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	95.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2011 dissolved
Run ID: A114248
Included Lab Sample IDs: 2348905, 2348906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	95.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114262
Included Lab Sample IDs: 2348907, 2348908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	100	P/P	90 - 110
Kjeldahl Nitrogen	104	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114376
Included Lab Sample IDs: 2348907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	98.0	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)	100				0.347	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	101	102			0.539
	Ammonia-N	96.0	100	103			2.13
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109					0.415
	Kjeldahl Nitrogen	109	105	104			0.760
EPA 353.2 Rev. 2.0	NO2NO3-N	94.5	91.4	91.4			0.0
EPA 365.1 Rev. 2.0	Total-P	102	103	102			0.811
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	98.6	99.5			0.701
SM 2320 B-2011	Total Alkalinity	98.9				0.106	
SM 2540 D-2011	TSS					7.41	
SM 4500-F- C-2011	Fluoride	99.5	97.7	97.7			0.0
SM 5310 B-2011	Organic Carbon	95.0	95.1	95.4			0.206
SM 5310 B-2011 dissolved	Organic Carbon	95.0	95.1	95.4			0.206

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2348903, 2348904
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2348907, 2348908
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2348907, 2348908
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2348907, 2348908
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2348907, 2348908
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2348909, 2348910
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2348903, 2348904
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2348903, 2348904
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2348903, 2348904
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2348907, 2348908
SM 5310 B-2011 dissolved	Dissolved Nonpurgeable Organic Carbon in filtered, aqueous matrices	2348905, 2348906

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	08/12/2022			08/12/2022 13:41	Samantha L Bates	2348903
	08/12/2022			08/12/2022 13:42	Samantha L Bates	2348904
EPA 350.1 Rev. 2.0	08/12/2022			08/19/2022 12:18	Judith K. Clark	2348908
	08/12/2022			08/26/2022 10:17	Judith K. Clark	2348907
EPA 351.2 Rev. 2.0	08/12/2022	08/18/2022 16:55	Samantha L Bates	08/22/2022 13:40	Alexandra J Mattheus	2348907
	08/12/2022	08/18/2022 16:55	Samantha L Bates	08/22/2022 14:07	Alexandra J Mattheus	2348908
EPA 353.2 Rev. 2.0	08/12/2022			08/16/2022 10:37	Beverly Y. Sanders	2348907
	08/12/2022			08/16/2022 10:39	Beverly Y. Sanders	2348908
EPA 365.1 Rev. 2.0	08/12/2022	08/17/2022 15:03	Adam P Silver	08/18/2022 10:16	James L Waggerby	2348907
	08/12/2022	08/17/2022 15:03	Adam P Silver	08/18/2022 10:17	James L Waggerby	2348908
EPA 365.1 Rev. 2.0 dissolved	08/12/2022			08/12/2022 13:55	Elise M. Gillis	2348909
	08/12/2022			08/12/2022 13:57	Elise M. Gillis	2348910
SM 2320 B-2011	08/12/2022			08/18/2022 09:04	Dale L. Simmons	2348903
	08/12/2022			08/18/2022 09:17	Dale L. Simmons	2348904
SM 2540 D-2011	08/12/2022			08/16/2022 16:02	Yijie Li	2348903, 2348904
SM 4500-F- C-2011	08/12/2022			08/18/2022 09:04	Dale L. Simmons	2348903
	08/12/2022			08/18/2022 09:17	Dale L. Simmons	2348904
SM 5310 B-2011	08/12/2022			08/18/2022 19:12	Khloe J Berg	2348907
	08/12/2022			08/18/2022 19:27	Khloe J Berg	2348908
SM 5310 B-2011 dissolved	08/12/2022			08/18/2022 18:43	Khloe J Berg	2348906
	08/12/2022			08/18/2022 18:58	Khloe J Berg	2348905