

Chemical Analysis Report

TLH-ROC-2022-02-01-01

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

Event Description: **Run 14**
Request ID: **RQ-2022-01-17-45**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 24-FEB-2022 11:24

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 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: N Bay @ Hodges Bayou

Collection Date/Time: 02/01/2022 10:40

Field ID: G3TLHR0035

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302809	EPA 180.1 Rev. 2.0	Turbidity	0.80	I	NTU	P409359	
	SM 2320 B-2011	Total Alkalinity	71		mg CaCO3/L	P409434	
	SM 2540 D-2011	TSS	3	U	mg/L	P409811	
	SM 4500 F-C-2011	Fluoride	0.52		mg F/L	P409437	
2302812	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P409634	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23	I	mg N/L	P409356	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P409379	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P409294	
	SM 5310 B-2011	Organic Carbon	3.5		mg C/L	P410104	
2302815	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P409343	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: N Bay @ Gainer Bayou

Collection Date/Time: 02/01/2022 10:55

Field ID: G3TLHR0036

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302810	EPA 180.1 Rev. 2.0	Turbidity	1.0	I	NTU	P409359	
	SM 2320 B-2011	Total Alkalinity	69		mg CaCO3/L	P409434	
	SM 2540 D-2011	TSS	3	U	mg/L	P409811	
	SM 4500 F-C-2011	Fluoride	0.51		mg F/L	P409437	
2302813	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P409634	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P409356	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P409379	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P409331	
	SM 5310 B-2011	Organic Carbon	4.1		mg C/L	P410104	
2302816	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P409343	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Direct Runoff to Bay Upper Goose Bayou

Collection Date/Time: 02/01/2022 12:35

Field ID: G3TLHR0031

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302811	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P409359	
	SM 2320 B-2011	Total Alkalinity	83		mg CaCO3/L	P409434	
	SM 2540 D-2011	TSS	3	U	mg/L	P409811	
	SM 4500 F-C-2011	Fluoride	0.69		mg F/L	P409437	
2302814	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P409634	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P409357	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P409379	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P409331	
	SM 5310 B-2011	Organic Carbon	3.5		mg C/L	P410104	
2302817	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P409343	

Ref. Method and Comment:

SM 2540 D-2011: 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: P409359

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409356

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409357

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409379

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409294

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409331

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409343

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

Reference Method: SM 2320 B-2011
Batch ID: P409434

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: P409811

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410104

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

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: P409356

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409357

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409379

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: P409294

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409331

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409343

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

Reference Method: SM 2320 B-2011
Batch ID: P409434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.6		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410104

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301967	Ammonia-N	97.8	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409356

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302958	Kjeldahl Nitrogen	95.6	91.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409357

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302814	Kjeldahl Nitrogen	100	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302812	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302359	Total-P	92.6	92.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409331

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302813	Total-P	101	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302950	O-Phosphate-P	96.6	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302260	Fluoride	97.7	98.3	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410104

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302353	Organic Carbon	89.0	90.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302863	Turbidity	0.292	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301967	Ammonia-N	0.716	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409356

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302958	Kjeldahl Nitrogen	3.35	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302814	Kjeldahl Nitrogen	5.35	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302812	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302359	Total-P	0.0810	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409331

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302813	Total-P	1.89	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302950	O-Phosphate-P	3.35	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P409434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302260	Total Alkalinity	1.34	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302260	Fluoride	0.480	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410104

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302353	Organic Carbon	1.12	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A110180
Included Lab Sample IDs: 2302815, 2302816, 2302817

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A110185
Included Lab Sample IDs: 2302809, 2302810, 2302811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A110192
Included Lab Sample IDs: 2302812, 2302813, 2302814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	102	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A110225
Included Lab Sample IDs: 2302809, 2302810, 2302811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.4	95.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A110225
Included Lab Sample IDs: 2302809, 2302810, 2302811

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110265
Included Lab Sample IDs: 2302812, 2302813, 2302814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	98.4	P/P	90 - 110
Kjeldahl Nitrogen	98.4	95.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110277
Included Lab Sample IDs: 2302812, 2302813, 2302814

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A110313
Included Lab Sample IDs: 2302812, 2302813, 2302814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110313

Included Lab Sample IDs: 2302812, 2302813, 2302814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	97.3	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110510

Included Lab Sample IDs: 2302812, 2302813, 2302814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.0	94.6	P/P	90 - 110
Organic Carbon	95.4	93.0	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	MS
EPA 180.1 Rev. 2.0	Turbidity	96.4			0.292	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	97.8	99.0		0.716
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.5	95.6	91.9		3.35
	Kjeldahl Nitrogen	99.3	100	107		5.35
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	102	102		0.0
EPA 365.1 Rev. 2.0	Total-P	102	92.6	92.6		0.0810
	Total-P	103	101	99.0		1.89
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	96.6	100		3.35
SM 2320 B-2011	Total Alkalinity	99.6			1.34	
SM 4500 F-C-2011	Fluoride	98.2	97.7	98.3		0.480
SM 5310 B-2011	Organic Carbon	94.5	89.0	90.2		1.12

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2302809, 2302810, 2302811
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2302812, 2302813, 2302814
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2302812, 2302813, 2302814
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2302812, 2302813, 2302814
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2302812, 2302813, 2302814
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2302815, 2302816, 2302817
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2302809, 2302810, 2302811
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2302809, 2302810, 2302811
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2302809, 2302810, 2302811
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2302812, 2302813, 2302814

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	02/01/2022			02/02/2022 14:16	Khloe J Berg	2302809
	02/01/2022			02/02/2022 14:17	Khloe J Berg	2302810
	02/01/2022			02/02/2022 14:19	Khloe J Berg	2302811
EPA 350.1 Rev. 2.0	02/01/2022			02/09/2022 11:50	Roberta Tatti	2302812
	02/01/2022			02/09/2022 11:51	Roberta Tatti	2302813
	02/01/2022			02/09/2022 11:53	Roberta Tatti	2302814
EPA 351.2 Rev. 2.0	02/01/2022	02/03/2022 10:45	Samantha L Bates	02/04/2022 13:58	Alexandra J Mattheus	2302812
	02/01/2022	02/03/2022 10:45	Samantha L Bates	02/04/2022 14:00	Alexandra J Mattheus	2302813
	02/01/2022	02/03/2022 10:45	Samantha L Bates	02/04/2022 14:24	Alexandra J Mattheus	2302814
EPA 353.2 Rev. 2.0	02/01/2022			02/03/2022 09:25	Beverly Y. Sanders	2302812
	02/01/2022			02/03/2022 09:32	Beverly Y. Sanders	2302813
	02/01/2022			02/03/2022 09:34	Beverly Y. Sanders	2302814
EPA 365.1 Rev. 2.0	02/01/2022	02/03/2022 14:00	Simonne.V. Calhoun	02/07/2022 14:10	Shengyu Ding	2302812
	02/01/2022	02/03/2022 14:00	Simonne.V. Calhoun	02/07/2022 14:31	Shengyu Ding	2302813
	02/01/2022	02/03/2022 14:00	Simonne.V. Calhoun	02/07/2022 14:32	Shengyu Ding	2302814
EPA 365.1 Rev. 2.0 dissolved	02/01/2022			02/02/2022 14:08	James L Waggeberby	2302815
	02/01/2022			02/02/2022 14:09	James L Waggeberby	2302816
	02/01/2022			02/02/2022 14:10	James L Waggeberby	2302817
SM 2320 B-2011	02/01/2022			02/04/2022 06:44	Dale L. Simmons	2302809
	02/01/2022			02/04/2022 06:56	Dale L. Simmons	2302810
	02/01/2022			02/04/2022 07:08	Dale L. Simmons	2302811
SM 2540 D-2011	02/01/2022			02/04/2022 14:55	Yijie Li	2302809, 2302810, 2302811
SM 4500 F-C-2011	02/01/2022			02/04/2022 04:31	Dale L. Simmons	2302809
	02/01/2022			02/04/2022 04:36	Dale L. Simmons	2302810
	02/01/2022			02/04/2022 04:42	Dale L. Simmons	2302811
SM 5310 B-2011	02/01/2022			02/19/2022 10:21	Khloe J Berg	2302812
	02/01/2022			02/19/2022 11:56	Khloe J Berg	2302813
	02/01/2022			02/19/2022 12:55	Khloe J Berg	2302814