Chemical Analysis Report

NW-DIST-2020-03-25-01

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

Event Description: **Alaqua Continuous Monitoring**
Request ID: **RQ-2020-03-23-18**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 16-APR-2020 15:42

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: Alaqua Creek below Portland Park **Collection Date/Time: 03/24/2020 10:55**

Field ID: G3NW0443 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2167589	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P381299	
	EPA 300.0 Rev. 2.1	Bromide	0.41		mg Br/L	P381517	
	SM 2320 B-2011	Total Alkalinity	3.4		mg CaCO3/L	P381656	
	SM 2540 D-2011	TSS	2	I	mg/L	P381712	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381963	
2167591	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P381430	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.15	I	mg N/L	P381702	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P381591	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P381367	
	SM 5310 B-2011	Organic Carbon	3.5		mg C/L	P381388	
2167593	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P381295	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Alaqua Bayou Center **Collection Date/Time: 03/24/2020 11:10**

Field ID: G3NW0180 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2167590	EPA 180.1 Rev. 2.0	Turbidity	5.4	A	NTU	P381299	
	EPA 300.0 Rev. 2.1	Bromide	3.1		mg Br/L	P381517	
	SM 2320 B-2011	Total Alkalinity	13		mg CaCO3/L	P381656	
	SM 2540 D-2011	TSS	8	I	mg/L	P381712	
	SM 4500 F-C-2011	Fluoride	0.074	I	mg F/L	P381963	
2167592	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P381430	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P381702	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P381592	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P381355	
	SM 5310 B-2011	Organic Carbon	3.4		mg C/L	P381388	
2167594	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P381295	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P381299

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381517

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381430

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381702

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381591

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381592

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381355

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381367

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P381295

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P381656

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

Reference Method: SM 2540 D-2011
Batch ID: P381712

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P381963

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P381388

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381517

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381430

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381702

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381591

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381355

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381367

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P381295

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: P381656

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	98 - 107

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P381963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.9		P	92 - 104

Reference Method: SM 5310 B-2011
Batch ID: P381388

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167411	Bromide	99.0	98.8	P/P	90 - 110
2167589	Bromide	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167591	Ammonia-N	99.3	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381591

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167540	NO2NO3-N	97.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167622	NO2NO3-N	94.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381355

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167075	Total-P	99.1	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381367

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167560	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P381295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167623	O-Phosphate-P	97.1	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P381963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167376	Fluoride	100	101	P/P	91 - 105

Reference Method: SM 5310 B-2011
Batch ID: P381388

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167591	Organic Carbon	101	102	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P381299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167590	Turbidity	6.65	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167411	Bromide	0.124	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167591	Ammonia-N	0.237	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381702

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167585	Kjeldahl Nitrogen	4.64	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381591

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167540	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167622	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167075	Total-P	0.629	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381367

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167560	Total-P	0.656	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P381295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167623	O-Phosphate-P	0.968	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P381656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2168318	Total Alkalinity	0.0608	Sample	P	0 - 3.3

Reference Method: SM 4500 F-C-2011
Batch ID: P381963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167376	Fluoride	0.461	Spike	P	0 - 2.0

Reference Method: SM 5310 B-2011
Batch ID: P381388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167591	Organic Carbon	1.05	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A98406
Included Lab Sample IDs: 2167589, 2167590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	101	99.8	P/P	90 - 110
Bromide	99.8	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A98436
Included Lab Sample IDs: 2167593, 2167594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	98.0	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A98437
Included Lab Sample IDs: 2167589, 2167590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	100	P/P	95 - 105

Reference Method: SM 5310 B-2011
Run ID: A98483
Included Lab Sample IDs: 2167591, 2167592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	99.8	P/P	90 - 110
Organic Carbon	99.8	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A98491
Included Lab Sample IDs: 2167591, 2167592

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A98546
Included Lab Sample IDs: 2167591, 2167592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.0	P/P	90 - 110
NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A98581
Included Lab Sample IDs: 2167589, 2167590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.0	99.2	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A98608
Included Lab Sample IDs: 2167591, 2167592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	98.5	P/P	90 - 110
Total-P	99.2	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A98637
Included Lab Sample IDs: 2167591, 2167592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.1	99.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A98715
Included Lab Sample IDs: 2167589, 2167590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	96.3	93.4	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
EPA 180.1 Rev. 2.0	Turbidity						6.65	
EPA 300.0 Rev. 2.1	Bromide	96.4	99.0	98.8	98.6			0.124
EPA 350.1 Rev. 2.0	Ammonia-N	101	99.3	99.6				0.237
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101						4.64
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	97.2					0.0
	NO2NO3-N	98.5	94.8					0.0
EPA 365.1 Rev. 2.0	Total-P	105	99.1	98.4				0.629
	Total-P	104	107	107				0.656
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	97.1	98.1				0.968
SM 2320 B-2011	Total Alkalinity	99.1					0.0608	
SM 4500 F-C-2011	Fluoride	94.9	100	101				0.461
SM 5310 B-2011	Organic Carbon	101	101	102				1.05

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2167589, 2167590
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2167589, 2167590
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2167591, 2167592
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2167591, 2167592
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2167591, 2167592
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2167591, 2167592
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2167593, 2167594
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2167589, 2167590
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2167589, 2167590
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2167589, 2167590
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2167591, 2167592

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	03/25/2020			03/25/2020 17:03	Yen Ta	2167589, 2167590
EPA 300.0 Rev. 2.1	03/25/2020			03/27/2020 13:04	Elliott Rodriguez	2167589
	03/25/2020			03/27/2020 15:55	Elliott Rodriguez	2167590
EPA 350.1 Rev. 2.0	03/25/2020			03/28/2020 14:29	Ping Hua	2167591
	03/25/2020			03/28/2020 14:47	Ping Hua	2167592
EPA 351.2 Rev. 2.0	03/25/2020	04/02/2020 09:25	Sima Feizi	04/03/2020 09:21	Jhamieka S. Greenwood	2167591
	03/25/2020	04/02/2020 09:25	Sima Feizi	04/03/2020 09:22	Jhamieka S. Greenwood	2167592
EPA 353.2 Rev. 2.0	03/25/2020			03/31/2020 09:41	Beverly Y. Sanders	2167591
	03/25/2020			03/31/2020 09:56	Beverly Y. Sanders	2167592
EPA 365.1 Rev. 2.0	03/25/2020	03/26/2020 17:15	Yen Ta	04/01/2020 18:23	Benjamin T. Nordmann	2167592
	03/25/2020	03/26/2020 17:15	Yen Ta	04/01/2020 19:09	Benjamin T. Nordmann	2167591
EPA 365.1 Rev. 2.0 dissolved	03/25/2020			03/25/2020 17:22	Julia Storbeck	2167593
	03/25/2020			03/25/2020 17:23	Julia Storbeck	2167594
SM 2320 B-2011	03/25/2020			04/01/2020 01:39	Dale L. Simmons	2167589
	03/25/2020			04/01/2020 02:07	Dale L. Simmons	2167590
SM 2540 D-2011	03/25/2020			03/27/2020 15:32	Yijie Li	2167589, 2167590
SM 4500 F-C-2011	03/25/2020			04/08/2020 23:27	Samantha Davila	2167589
	03/25/2020			04/08/2020 23:47	Samantha Davila	2167590
SM 5310 B-2011	03/25/2020			03/26/2020 19:19	Madeline Gruver	2167591
	03/25/2020			03/26/2020 22:33	Madeline Gruver	2167592