

Chemical Analysis Report

NE-DIST-2020-06-18-02

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

Event Description: **Palm Valley Boat**
Request ID: **RQ-2020-04-13-32**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 08-JUL-2020 09:47

A handwritten signature in black ink, appearing to read "Liang Lin", is shown 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: Deep Creek 270M Above ICW

Collection Date/Time: 06/17/2020 09:15

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2177588	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P383412	
	EPA 300.0 Rev. 2.1	Bromide	39		mg Br/L	P384096	
	SM 2320 B-2011	Total Alkalinity	106		mg CaCO3/L	P383554	
	SM 2540 D-2011	TSS	22		mg/L	P383587	
	SM 4500 F-C-2011	Fluoride	0.93		mg F/L	P383558	
2177591	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P383473	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77		mg N/L	P383564	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P383528	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P383506	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P383532	
2177594	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P383419	

Sample Location: Marshall Creek 450m above Mouth

Collection Date/Time: 06/17/2020 10:45

Field ID: G5NE0588

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2177589	EPA 180.1 Rev. 2.0	Turbidity	22		NTU	P383412	
	EPA 300.0 Rev. 2.1	Bromide	37		mg Br/L	P384096	
	SM 2320 B-2011	Total Alkalinity	109		mg CaCO3/L	P383554	
	SM 2540 D-2011	TSS	39		mg/L	P383587	
	SM 4500 F-C-2011	Fluoride	0.89		mg F/L	P383558	
2177592	EPA 350.1 Rev. 2.0	Ammonia-N	0.045		mg N/L	P383473	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P383564	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P383528	
	EPA 365.1 Rev. 2.0	Total-P	0.084		mg P/L	P383506	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P383532	
2177595	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P383419	

Sample Location: Capo Creek 300M above Mouth

Collection Date/Time: 06/17/2020 11:15

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2177590	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P383412	
	EPA 300.0 Rev. 2.1	Bromide	44		mg Br/L	P384096	
	SM 2320 B-2011	Total Alkalinity	109		mg CaCO3/L	P383554	
	SM 2540 D-2011	TSS	32		mg/L	P383587	
	SM 4500 F-C-2011	Fluoride	1.0		mg F/L	P383558	
2177593	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P383473	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P383564	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P383528	
	EPA 365.1 Rev. 2.0	Total-P	0.075		mg P/L	P383605	
	SM 5310 B-2011	Organic Carbon	9.5		mg C/L	P383532	
2177596	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P383419	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P383412

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384096

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383473

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383564

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383528

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383506

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383605

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383419

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

Reference Method: SM 2320 B-2011
Batch ID: P383554

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: P383587

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P383558

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P383532

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: P384096

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383473

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383528

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: P383506

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: P383605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383419

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.3		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P383554

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P383558

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.6		P	90 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P383532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384096

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177963	Bromide	96.2	96.7	P/P	90 - 110
2178150	Bromide	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P383473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177683	Ammonia-N	105	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P383564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177526	Kjeldahl Nitrogen	94.5	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P383528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177523	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P383506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177522	Total-P	98.1	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P383605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177593	Total-P	97.4	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P383419

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177595	O-Phosphate-P	94.6	95.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
 Batch ID: P383558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177537	Fluoride	103	105	P/P	94 - 107

Reference Method: SM 5310 B-2011
 Batch ID: P383532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177547	Organic Carbon	103	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P383412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177537	Turbidity	2.96	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384096

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177963	Bromide	0.391	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177683	Ammonia-N	1.25	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177526	Kjeldahl Nitrogen	4.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177523	NO2NO3-N	0.496	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177522	Total-P	0.989	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177593	Total-P	2.73	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383419

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177595	O-Phosphate-P	0.400	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P383554

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177537	Total Alkalinity	0.207	Sample	P	0 - 8.1

Reference Method: SM 2540 D-2011
Batch ID: P383587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177538	TSS	0.0	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P383558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177537	Fluoride	1.89	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P383532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177547	Organic Carbon	0.552	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: A99407

Included Lab Sample IDs: 2177588, 2177589, 2177590

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A99408

Included Lab Sample IDs: 2177594, 2177595, 2177596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	98.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A99434

Included Lab Sample IDs: 2177591, 2177592, 2177593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	105	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A99454

Included Lab Sample IDs: 2177591, 2177592, 2177593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A99456

Included Lab Sample IDs: 2177591, 2177592, 2177593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	107	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A99462

Included Lab Sample IDs: 2177588, 2177589, 2177590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.2	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A99462

Included Lab Sample IDs: 2177588, 2177589, 2177590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99483

Included Lab Sample IDs: 2177591, 2177592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	93.8	93.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A99490

Included Lab Sample IDs: 2177591, 2177592, 2177593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.9	94.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99561

Included Lab Sample IDs: 2177593

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99696

Included Lab Sample IDs: 2177588, 2177589, 2177590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	96.0	98.6	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 SMP	MS
			LCS				
EPA 180.1 Rev. 2.0	Turbidity					2.96	
EPA 300.0 Rev. 2.1	Bromide	96.0	96.2	96.7	97.2		0.391
EPA 350.1 Rev. 2.0	Ammonia-N	103	105	103			1.25
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	94.5	98.8			4.04
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	101	100			0.496
EPA 365.1 Rev. 2.0	Total-P	105	98.1	99.1			0.989
	Total-P	99.6	97.4	94.5			2.73
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.3	94.6	95.1			0.400
SM 2320 B-2011	Total Alkalinity	99.1				0.207	
SM 2540 D-2011	TSS					0.0	
SM 4500 F-C-2011	Fluoride	96.6	103	105			1.89
SM 5310 B-2011	Organic Carbon	103	102	103			0.552

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2177588, 2177589, 2177590
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2177588, 2177589, 2177590
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2177591, 2177592, 2177593
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2177591, 2177592, 2177593
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2177591, 2177592, 2177593
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2177591, 2177592, 2177593
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2177594, 2177595, 2177596
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2177588, 2177589, 2177590
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2177588, 2177589, 2177590
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2177588, 2177589, 2177590
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2177591, 2177592, 2177593

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	06/18/2020			06/18/2020 14:56	Yen Ta	2177588, 2177589, 2177590
EPA 300.0 Rev. 2.1	06/18/2020			07/01/2020 23:55	Jhamieka S. Greenwood	2177588
	06/18/2020			07/02/2020 00:12	Jhamieka S. Greenwood	2177589
	06/18/2020			07/02/2020 00:29	Jhamieka S. Greenwood	2177590
EPA 350.1 Rev. 2.0	06/18/2020			06/20/2020 14:49	Ping Hua	2177591
	06/18/2020			06/20/2020 14:51	Ping Hua	2177592
	06/18/2020			06/20/2020 14:52	Ping Hua	2177593
EPA 351.2 Rev. 2.0	06/18/2020	06/23/2020 09:35	Sima Feizi	06/24/2020 12:53	Jhamieka S. Greenwood	2177591
	06/18/2020	06/23/2020 09:35	Sima Feizi	06/24/2020 12:55	Jhamieka S. Greenwood	2177592
	06/18/2020	06/23/2020 09:35	Sima Feizi	06/24/2020 12:57	Jhamieka S. Greenwood	2177593
EPA 353.2 Rev. 2.0	06/18/2020			06/23/2020 08:54	Beverly Y. Sanders	2177591
	06/18/2020			06/23/2020 08:55	Beverly Y. Sanders	2177592
	06/18/2020			06/23/2020 08:57	Beverly Y. Sanders	2177593
EPA 365.1 Rev. 2.0	06/18/2020	06/22/2020 14:35	Yen Ta	06/24/2020 08:12	Lipi Saha	2177591
	06/18/2020	06/22/2020 14:35	Yen Ta	06/24/2020 08:13	Lipi Saha	2177592
	06/18/2020	06/24/2020 11:09	Yen Ta	06/29/2020 08:13	Lipi Saha	2177593
EPA 365.1 Rev. 2.0 dissolved	06/18/2020			06/18/2020 15:35	Jhamieka S. Greenwood	2177595
	06/18/2020			06/18/2020 15:40	Jhamieka S. Greenwood	2177594
	06/18/2020			06/18/2020 15:41	Jhamieka S. Greenwood	2177596
SM 2320 B-2011	06/18/2020			06/23/2020 09:06	Dale L. Simmons	2177588
	06/18/2020			06/23/2020 09:18	Dale L. Simmons	2177589
	06/18/2020			06/23/2020 09:30	Dale L. Simmons	2177590
SM 2540 D-2011	06/18/2020			06/19/2020 20:20	Madeline Gruver	2177588, 2177589, 2177590
SM 4500 F-C-2011	06/18/2020			06/23/2020 07:50	Dale L. Simmons	2177588
	06/18/2020			06/23/2020 07:55	Dale L. Simmons	2177589
	06/18/2020			06/23/2020 08:00	Dale L. Simmons	2177590
SM 5310 B-2011	06/18/2020			06/23/2020 05:47	David Boose	2177591
	06/18/2020			06/23/2020 05:59	David Boose	2177592
	06/18/2020			06/23/2020 06:23	David Boose	2177593