

Chemical Analysis Report

SW-DIST-2020-12-10-01

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

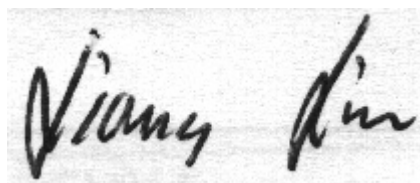
Event Description: **HAs Wildcat and Horse**
Request ID: **RQ-2020-10-26-02**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 04-JAN-2021 11:38

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: Horse Creek

Collection Date/Time: 12/09/2020 12:10

Field ID: G3SW0012

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2212164	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P390988	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P391161	
	SM 2120 B-2011	Color (true)	150		PCU	P390993	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P391578	
	SM 2540 C-2011	TDS	204		mg/L	P391518	
	SM 2540 D-2011	TSS	4	I	mg/L	P391523	
	SM 4500 F-C-2011	Fluoride	0.46		mg F/L	P391090	
2212165	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P391082	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P391291	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.049		mg N/L	P391022	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P391093	
	SM 5310 B-2011	Organic Carbon	23		mg C/L	P391172	
2212166	EPA 300.0 Rev. 2.1 dissolved	Sulfate	48		mg SO4/L	P391164	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.23		mg P/L	P390997	

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: P390988

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P391161

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P391164

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P391082

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P391291

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P391022

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P391093

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P390997

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

Reference Method: SM 2120 B-2011
Batch ID: P390993

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P391578

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P391518

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P391523

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P391090

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P391172

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: P391161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P391164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P391082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P391291

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P391022

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: P391093

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: P390997

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

Reference Method: SM 2120 B-2011
Batch ID: P390993

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P391578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P391090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P391172

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P391161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2211733	Chloride	96.9		P	90 - 110
2212033	Chloride	95.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P391164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2212199	Sulfate	99.3	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P391082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2211323	Ammonia-N	96.6	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P391291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2212180	Kjeldahl Nitrogen	93.3	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P391022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2211954	NO2NO3-N	98.5	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P391093

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2212034	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P390997

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2212203	O-Phosphate-P	101	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P391090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2212172	Fluoride	96.8	95.7	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P391172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2212173	Organic Carbon	102	106	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P390988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212147	Turbidity	9.36	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P391161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2211733	Chloride	0.195	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P391164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212199	Sulfate	1.18	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P391082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2211323	Ammonia-N	0.207	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P391291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212180	Kjeldahl Nitrogen	10.3	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P391022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2211954	NO2NO3-N	2.18	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P391093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212034	Total-P	1.19	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P390997

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212203	O-Phosphate-P	0.243	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P390993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212170	Color (true)	0.867	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P391578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212204	Total Alkalinity	2.04	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P391518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2211720	TDS	2.34	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P391090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212172	Fluoride	0.924	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P391172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2212173	Organic Carbon	2.68	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: A102455

Included Lab Sample IDs: 2212164

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.1	98.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1 dissolved

Run ID: A102455

Included Lab Sample IDs: 2212166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	98.5	98.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A102523

Included Lab Sample IDs: 2212164

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	104	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A102525

Included Lab Sample IDs: 2212164

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A102527

Included Lab Sample IDs: 2212166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A102539

Included Lab Sample IDs: 2212165

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A102553

Included Lab Sample IDs: 2212165

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.8	93.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A102561

Included Lab Sample IDs: 2212164

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A102590

Included Lab Sample IDs: 2212165

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A102645

Included Lab Sample IDs: 2212165

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	102	P/P	85 - 115

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A102670

Included Lab Sample IDs: 2212165

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	100	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A102709

Included Lab Sample IDs: 2212164

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.8	92.9	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				9.36	
EPA 300.0 Rev. 2.1	Chloride	98.7	96.9	95.6	0.195	
EPA 300.0 Rev. 2.1 dissolved	Sulfate	99.7	99.3	101		1.18
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	96.6	96.8		0.207
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	93.3	110		10.3
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	98.5	95.0		2.18
EPA 365.1 Rev. 2.0	Total-P	102	102	104		1.19
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.6	101	101		0.243
SM 2120 B-2011	Color (true)	100			0.867	
SM 2320 B-2011	Total Alkalinity	97.1			2.04	
SM 2540 C-2011	TDS				2.34	
SM 4500 F-C-2011	Fluoride	97.4	96.8	95.7		0.924
SM 5310 B-2011	Organic Carbon	99.1	102	106		2.68

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2212164
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2212164
EPA 300.0 Rev. 2.1 dissolved	Sulfate, dissolved, in filtered, aqueous matrices	2212166
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2212165
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2212165
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2212165
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2212165
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2212166
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2212164
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2212164
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2212164
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2212164
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2212164
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2212165

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	12/10/2020			12/10/2020 14:23	Yen Ta	2212164
EPA 300.0 Rev. 2.1	12/10/2020			12/11/2020 17:32	Lipi Saha	2212164
EPA 300.0 Rev. 2.1 dissolved	12/10/2020			12/11/2020 23:11	Lipi Saha	2212166
EPA 350.1 Rev. 2.0	12/10/2020			12/13/2020 16:46	Ping Hua	2212165
EPA 351.2 Rev. 2.0	12/10/2020	12/16/2020 12:33	David Boose	12/17/2020 19:53	Julia Storbeck	2212165
EPA 353.2 Rev. 2.0	12/10/2020			12/11/2020 10:40	Beverly Y. Sanders	2212165
EPA 365.1 Rev. 2.0	12/10/2020	12/14/2020 17:37	Shengyu Wang	12/17/2020 12:52	Benjamin T. Nordmann	2212165
EPA 365.1 Rev. 2.0 dissolved	12/10/2020			12/10/2020 15:48	Blanca Fach	2212166
SM 2120 B-2011	12/10/2020			12/10/2020 15:38	Benjamin T. Nordmann	2212164
SM 2320 B-2011	12/10/2020			12/22/2020 00:26	Dale L. Simmons	2212164
SM 2540 C-2011	12/10/2020			12/14/2020 14:56	Yijie Li	2212164
SM 2540 D-2011	12/10/2020			12/14/2020 15:56	Yijie Li	2212164
SM 4500 F-C-2011	12/10/2020			12/11/2020 19:48	Dale L. Simmons	2212164
SM 5310 B-2011	12/10/2020			12/14/2020 19:02	Touraj Touran	2212165