

Chemical Analysis Report

NW-DIST-2022-10-20-02

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

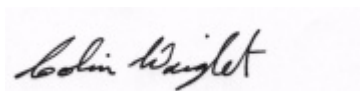
Event Description: **Reference Stream SCI**
Request ID: **RQ-2022-10-10-28**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
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Certified by: Colin Wright, Program Administrator

Date Certified: 15-NOV-2022 10:19

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular 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: Airport Drain on Eglin AFB

Collection Date/Time: 10/19/2022 10:50

Field ID: 32010272

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364092	DEP SOP: NU-094-1	Color (true)	11	A	PCU	P421194	
	EPA 180.1 Rev. 2.0	Turbidity	7.5		NTU	P421207	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P422011	
		Sulfate	7.6		mg SO4/L	P421824	
	SM 2320 B-2011	Total Alkalinity	35		mg CaCO3/L	P421457	
	SM 2540 C-2015	TDS	98		mg/L	P421735	
	SM 2540 D-2015	TSS	11		mg/L	P421401	
	SM 4500-F- C-2011	Fluoride	0.027	I	mg F/L	P421906	
2364093	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P421859	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28		mg N/L	P421572	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.25		mg N/L	P421529	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P421427	
	SM 5310 B-2011	Organic Carbon	2.5		mg C/L	P421544	
2364094	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P421198	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P421194

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421207

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421824

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422011

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421859

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421572

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421529

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421198

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: P421457

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

Reference Method: SM 2540 C-2015
Batch ID: P421735

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P421401

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P421906

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P421544

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: P421194

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421207

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421824

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	107		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422011

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421572

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421529

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

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: P421198

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P421457

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.0		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P421735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.9		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P421401

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P421906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421824

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364196	Sulfate	109		P	90 - 110
2364229	Sulfate	108		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422011

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364196	Chloride	105		P	90 - 110
2364229	Chloride	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364123	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363935	Kjeldahl Nitrogen	101	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421529

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364093	NO2NO3-N	95.0	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364125	Total-P	105	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364043	O-Phosphate-P	101	99.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P421906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363953	Fluoride	99.3	100	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364275	Organic Carbon	99.6		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P421194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364092	Color (true)	12.2	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363980	Turbidity	3.43	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421824

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364196	Sulfate	0.512	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422011

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364196	Chloride	0.0389	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364123	Ammonia-N	0.946	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363935	Kjeldahl Nitrogen	0.727	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364093	NO2NO3-N	0.473	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364125	Total-P	0.245	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364043	O-Phosphate-P	0.912	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P421457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363953	Total Alkalinity	1.76	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P421735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363803	TDS	6.09	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P421906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363953	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P421544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364275	Organic Carbon	0.645	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: A115432

Included Lab Sample IDs: 2364092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115436

Included Lab Sample IDs: 2364092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	98.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A115437

Included Lab Sample IDs: 2364094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	98.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115538

Included Lab Sample IDs: 2364092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.5	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115564

Included Lab Sample IDs: 2364093

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115568

Included Lab Sample IDs: 2364093

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

Reference Method: SM 5310 B-2011

Run ID: A115572

Included Lab Sample IDs: 2364093

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115643

Included Lab Sample IDs: 2364093

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.7	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115675

Included Lab Sample IDs: 2364092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	98.7	P/P	90 - 110
Sulfate	104	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115726

Included Lab Sample IDs: 2364093

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	99.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115743

Included Lab Sample IDs: 2364092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	99.5	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
DEP SOP: NU-094-1	Color (true)	99.7			12.2	
EPA 180.1 Rev. 2.0	Turbidity	99.1			3.43	
EPA 300.0 Rev. 2.1	Chloride	106	105	101	0.0389	
	Sulfate	107	109	108	0.512	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	101	102		0.946
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	101	103		0.727
EPA 353.2 Rev. 2.0	NO2NO3-N	104	95.0	95.8		0.473
EPA 365.1 Rev. 2.0	Total-P	102	105	106		0.245
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	101	99.6		0.912
SM 2320 B-2011	Total Alkalinity	99.0			1.76	
SM 2540 C-2015	TDS	97.9			6.09	
SM 2540 D-2015	TSS	96.5				
SM 4500-F- C-2011	Fluoride	100	99.3	100		0.470
SM 5310 B-2011	Organic Carbon	97.4	99.6			0.645

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2364092
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2364092
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2364092
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2364092
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2364093
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2364093
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2364093
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2364093
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2364094
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2364092
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2364092
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2364092
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2364092
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2364093

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	10/20/2022			10/20/2022 14:15	Anna M. Plaviak	2364092
EPA 180.1 Rev. 2.0	10/20/2022			10/20/2022 14:29	Chandler E Cox	2364092
EPA 300.0 Rev. 2.1	10/20/2022			11/03/2022 00:34	Anna M. Plaviak	2364092
	10/20/2022			11/04/2022 21:11	Anna M. Plaviak	2364092
EPA 350.1 Rev. 2.0	10/20/2022			11/03/2022 13:35	Ping Hua	2364093
EPA 351.2 Rev. 2.0	10/20/2022	10/28/2022 11:18	Simonne.V. Calhoun	10/31/2022 12:28	Alexandra J Mattheus	2364093
EPA 353.2 Rev. 2.0	10/20/2022			10/27/2022 10:36	Beverly Y. Sanders	2364093
EPA 365.1 Rev. 2.0	10/20/2022	10/26/2022 15:16	Adam P Silver	10/27/2022 12:13	Simonne.V. Calhoun	2364093
EPA 365.1 Rev. 2.0 dissolved	10/20/2022			10/20/2022 15:25	Elise M. Gillis	2364094
SM 2320 B-2011	10/20/2022			10/25/2022 23:28	Adam P Silver	2364092
SM 2540 C-2015	10/20/2022			10/21/2022 17:06	Yijie Li	2364092
SM 2540 D-2015	10/20/2022			10/21/2022 17:06	Yijie Li	2364092
SM 4500-F- C-2011	10/20/2022			11/04/2022 07:46	Dale L. Simmons	2364092
SM 5310 B-2011	10/20/2022			10/27/2022 00:51	Khloe J Berg	2364093