

Chemical Analysis Report

CEN-DIST-2017-06-27-02

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

Event Description: **Strickland / UnBranch 2642 / Rose**

Request ID: **RQ-2017-06-26-61**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

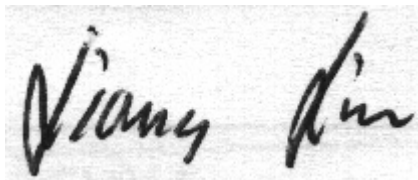
FL Dept. of Environmental Protection
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Orlando, FL 32803-3767
Attn: Mike Linger

For additional information please contact

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Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 12-JUL-2017 16:53

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 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: UNNAMED BRANCH @ 750M US OF CONFLUENCE OF TOMOKA RIVER

Collection Date/Time: 06/26/2017 11:40

Field ID: G5CE0017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1909103	EPA 180.1 Rev. 2.0	Turbidity	5.5		NTU	P327593	
	SM 2320 B-97	Total Alkalinity	154		mg CaCO3/L	P327900	
	SM 2540 D-97	TSS	7	I	mg/L	P327880	
	SM 4500 F-C-97	Fluoride	0.56		mg F/L	P327901	
1909105	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P327672	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P327558	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P327775	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P327631	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P327945	
1909107	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P327573	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ROSE BAY @ 125M NE OF BOAT RAMP

Collection Date/Time: 06/26/2017 13:07

Field ID: G5CE0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1909104	EPA 180.1 Rev. 2.0	Turbidity	7.8		NTU	P327593	
	SM 2320 B-97	Total Alkalinity	127		mg CaCO3/L	P327900	
	SM 2540 D-97	TSS	12	A	mg/L	P327881	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P327901	
1909106	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P327783	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P327558	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P327775	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P327631	
	SM 5310 B-00	Organic Carbon	5.3		mg C/L	P327945	
1909108	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.027		mg P/L	P327573	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P327593

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P327672

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P327783

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327783

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327558

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327775

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327631

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327573

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

Reference Method: SM 2320 B-97
Batch ID: P327900

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

Reference Method: SM 2540 D-97
Batch ID: P327880

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P327881

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P327901

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P327945

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327672

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327783

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327558

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327775

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: P327631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.4		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P327900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P327901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P327901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P327945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327672

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1908622	Ammonia-N	97.2	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327783

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1909106	Ammonia-N	100	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1908985	Kjeldahl Nitrogen	99.9	95.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1909105	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1909124	Total-P	101	97.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1908987	O-Phosphate-P	94.0	95.4	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P327901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P327901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1909416	Fluoride	97.0	99.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P327945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1908548	Organic Carbon	91.9	95.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P327593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1909051	Turbidity	3.39	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327672

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1908622	Ammonia-N	0.479	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327783

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1909106	Ammonia-N	1.82	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1908985	Kjeldahl Nitrogen	4.06	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1909105	NO2NO3-N	0.469	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P327631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1909124	Total-P	3.26	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P327573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1908987	O-Phosphate-P	0.992	Spike	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P327900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1909416	Total Alkalinity	0.106	Sample	P	0 - 4.8

Reference Method: SM 2540 D-97

Batch ID: P327881

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1909104	TSS	6.90	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97

Batch ID: P327901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1909416	Fluoride	1.97	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00

Batch ID: P327945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1908548	Organic Carbon	3.18	Spike	P	0 - 20

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

Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A77374

Included Lab Sample IDs: 1909107, 1909108

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.1	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A77382
Included Lab Sample IDs: 1909103, 1909104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A77410
Included Lab Sample IDs: 1909105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A77417
Included Lab Sample IDs: 1909105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.7	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A77422
Included Lab Sample IDs: 1909106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.0	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A77451
Included Lab Sample IDs: 1909105, 1909106

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A77454
Included Lab Sample IDs: 1909106

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A77472
Included Lab Sample IDs: 1909105, 1909106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	104	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A77507
Included Lab Sample IDs: 1909103, 1909104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	105	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A77507

Included Lab Sample IDs: 1909103, 1909104

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

Reference Method: SM 5310 B-00

Run ID: A77524

Included Lab Sample IDs: 1909105, 1909106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	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	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				3.39	
EPA 350.1 Rev. 2.0	Ammonia-N	102	97.2 97.8			0.479
	Ammonia-N	98.5	100 98.0			1.82
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	99.9 95.0			4.06
EPA 353.2 Rev. 2.0	NO2NO3-N	102	103 103			0.469
EPA 365.1 Rev. 2.0	Total-P	95.0	101 97.3			3.26
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	94.0 95.4			0.992
SM 2320 B-97	Total Alkalinity	103			0.106	
SM 2540 D-97	TSS				6.90	
SM 4500 F-C-97	Fluoride	97.5	97.0 99.7			1.97
SM 5310 B-00	Organic Carbon	97.2	91.9 95.2			3.18

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1909103, 1909104
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1909105, 1909106
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1909105, 1909106
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1909105, 1909106
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1909105, 1909106
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1909107, 1909108
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1909103, 1909104
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1909103, 1909104
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1909103, 1909104
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1909105, 1909106

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	06/27/2017			06/27/2017 17:22	DeAsia Armster	1909103, 1909104
EPA 350.1 Rev. 2.0	06/27/2017			06/28/2017	Sofia Elnemr	1909105
	06/27/2017			06/29/2017	Sofia Elnemr	1909106
EPA 351.2 Rev. 2.0	06/27/2017	06/28/2017	Adrian Shelby	06/30/2017	Joseph Suarez	1909105, 1909106
EPA 353.2 Rev. 2.0	06/27/2017			06/30/2017	Beverly Y. Sanders	1909105, 1909106
EPA 365.1 Rev. 2.0	06/27/2017	06/28/2017	Vijayalakshmi Reddy	06/29/2017	Lipi Saha	1909105, 1909106
EPA 365.1 Rev. 2.0 dissolved	06/27/2017			06/27/2017 15:17	Anthony C. Onicha	1909107
	06/27/2017			06/27/2017 15:18	Anthony C. Onicha	1909108
SM 2320 B-97	06/27/2017			06/29/2017	Dale L. Simmons	1909103, 1909104
SM 2540 D-97	06/27/2017			06/28/2017	Yijie Li	1909103, 1909104
SM 4500 F-C-97	06/27/2017			06/29/2017	Dale L. Simmons	1909103, 1909104
SM 5310 B-00	06/27/2017			07/04/2017	Sofia Elnemr	1909105, 1909106