Chemical Analysis Report

SO-DIST-2016-04-05-02

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

Event Description: **WBID 2056A**
Request ID: **RQ-2016-03-07-15**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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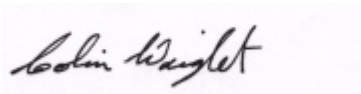
Certified by: Colin Wright, Environmental Administrator

Date Certified: 28-APR-2016 09:47



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 groups are included in this report: Metals and 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: Charlotte Harbor **Collection Date/Time: 04/04/2016 07:15**

Field ID: CHV006 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1786502	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P301670	
	SM 2320 B-97	Total Alkalinity	98		mg CaCO3/L	P301939	
	SM 2540 D-97	TSS	7	I	mg/L	P302215	
	SM 4500 F-C-97	Fluoride	0.82		mg F/L	P301938	
1786503	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P302133	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P302240	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.015		mg N/L	P301810	
	EPA 365.1 Rev. 2.0	Total-P	0.25		mg P/L	P302049	MS
	SM 5310 B-00	Organic Carbon	10		mg C/L	P301822	
1786504	EPA 200.7 Rev. 4.4	Iron	200		ug/L	P302060	
		Zinc	7.2	I	ug/L	P302060	
	EPA 200.8 Rev. 5.4	Arsenic	1.41		ug/L	P302060	
		Cadmium	0.060	U	ug/L	P302060	
		Chromium	0.52	I	ug/L	P302060	
		Copper	0.94	I	ug/L	P302060	
		Lead	0.17	I	ug/L	P302060	
		Nickel	0.75	U	ug/L	P302060	
		Silver	0.015	U	ug/L	P302060	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301670

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P302060

Component	Result	Code	Units
Iron	30	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P302060

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.050	U	ug/L
Copper	0.10	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.25	U	ug/L
Silver	0.0050	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302133

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302240

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301810

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302049

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

Reference Method: SM 2320 B-97
Batch ID: P301939

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

Reference Method: SM 2540 D-97
Batch ID: P302215

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P301938

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P301822

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P302060

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P302060

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	103		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P302060

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	99.9		P	85 - 115
Cadmium	95.3		P	85 - 115
Chromium	94.2		P	85 - 115
Copper	94.8		P	85 - 115
Lead	90.1		P	85 - 115
Nickel	95.9		P	85 - 115
Silver	94.0		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302133

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: P302240

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.1		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301810

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: P302049

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

Reference Method: SM 2320 B-97
Batch ID: P301939

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

Reference Method: SM 4500 F-C-97
Batch ID: P301938

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	92 - 103

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P301822

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P302060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786574	Iron	103	102	P/P	70 - 130
1786574	Zinc	95.5	94.9	P/P	70 - 130
1786986	Iron	106		P	70 - 130
1786986	Zinc	99.3		P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P302060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786574	Arsenic	99.7	101	P/P	70 - 130
1786574	Cadmium	88.8	90.1	P/P	70 - 130
1786574	Chromium	90.7	90.7	P/P	70 - 130
1786574	Copper	88.3	88.0	P/P	70 - 130
1786574	Lead	90.2	92.6	P/P	70 - 130
1786574	Nickel	95.3	95.9	P/P	70 - 130
1786574	Silver	87.1	88.4	P/P	70 - 130
1786986	Arsenic	100		P	70 - 130
1786986	Cadmium	90.0		P	70 - 130
1786986	Chromium	90.6		P	70 - 130
1786986	Copper	89.3		P	70 - 130
1786986	Lead	91.2		P	70 - 130
1786986	Nickel	104		P	70 - 130
1786986	Silver	87.5		P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786862	Ammonia-N	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302240

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786262	Kjeldahl Nitrogen	101	97.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301810

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786422	NO2NO3-N	100	102	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302049

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786425	Total-P	86.9	90.6	F/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P301938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786536	Fluoride	97.4	98.1	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P301822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1784377	Organic Carbon	93.4	92.6	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786475	Turbidity	1.20	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P302060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786574	Iron	1.01	Spike	P	0 - 20
1786574	Zinc	0.668	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P302060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786574	Arsenic	1.35	Spike	P	0 - 20
1786574	Cadmium	1.45	Spike	P	0 - 20
1786574	Chromium	0.0394	Spike	P	0 - 20
1786574	Copper	0.284	Spike	P	0 - 20
1786574	Lead	2.65	Spike	P	0 - 20
1786574	Nickel	0.625	Spike	P	0 - 20
1786574	Silver	1.41	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786862	Ammonia-N	0.675	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302240

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786262	Kjeldahl Nitrogen	2.80	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786422	NO2NO3-N	1.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302049

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786425	Total-P	4.00	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P301939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786536	Total Alkalinity	0.0176	Sample	P	0 - 4.8

Reference Method: SM 2540 D-97
Batch ID: P302215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786023	TSS	7.14	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P301938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786536	Fluoride	0.476	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P301822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1784377	Organic Carbon	0.639	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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A68679
Included Lab Sample IDs: 1786502

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A68722
Included Lab Sample IDs: 1786503

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

Reference Method: SM 5310 B-00
Run ID: A68728
Included Lab Sample IDs: 1786503

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	91.6	92.4	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A68768
Included Lab Sample IDs: 1786502

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A68768
Included Lab Sample IDs: 1786502

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A68837
Included Lab Sample IDs: 1786503

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A68841
Included Lab Sample IDs: 1786503

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A68894
Included Lab Sample IDs: 1786504

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	102	99.0	P/P	90 - 110
Zinc	101	100	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A68903
Included Lab Sample IDs: 1786504

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	99.1	100	P/P	90 - 110
Cadmium	97.3	96.9	P/P	90 - 110
Chromium	102	99.8	P/P	90 - 110
Copper	97.2	99.0	P/P	90 - 110
Lead	94.6	94.4	P/P	90 - 110
Silver	94.6	94.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A68934
Included Lab Sample IDs: 1786503

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.7	98.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A69004
Included Lab Sample IDs: 1786504

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	97.9	96.0	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						1.20	
EPA 200.7 Rev. 4.4	Iron	103	106	103	102			1.01
	Zinc	101	99.3	95.5	94.9			0.668
EPA 200.8 Rev. 5.4	Arsenic	99.9	99.7	101	100			1.35
	Cadmium	95.3	88.8	90.1	90.0			1.45
	Chromium	94.2	90.7	90.7	90.6			0.0394
	Copper	94.8	88.3	88.0	89.3			0.284
	Lead	90.1	90.2	92.6	91.2			2.65
	Nickel	95.9	95.3	95.9	104			0.625
	Silver	94.0	87.1	88.4	87.5			1.41
EPA 350.1 Rev. 2.0	Ammonia-N	101	102	101				0.675
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.1	101	97.3				2.80
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	102				1.49
EPA 365.1 Rev. 2.0	Total-P	101	86.9	90.6				4.00
SM 2320 B-97	Total Alkalinity	102					0.0176	
SM 2540 D-97	TSS						7.14	
SM 4500 F-C-97	Fluoride	98.3	97.4	98.1				0.476
SM 5310 B-00	Organic Carbon	96.7	93.4	92.6				0.639

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1786502
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1786504
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1786504
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1786503
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1786503
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1786503
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1786503
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1786502
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1786502
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1786502
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1786503

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	04/05/2016			04/05/2016 18:39	Sima Feizi	1786502
EPA 200.7 Rev. 4.4	04/05/2016	04/12/2016	Elliott D. Healy	04/15/2016	Joshua Ayres	1786504
EPA 200.8 Rev. 5.4	04/05/2016	04/12/2016	Elliott D. Healy	04/15/2016	Charles J. Peterson	1786504
	04/05/2016	04/12/2016	Elliott D. Healy	04/20/2016	Robert K Palmer	1786504
EPA 350.1 Rev. 2.0	04/05/2016			04/12/2016	Diana M. Turner	1786503
EPA 351.2 Rev. 2.0	04/05/2016	04/14/2016	Sofia Elnemr	04/18/2016	Virginia P. Brown	1786503
EPA 353.2 Rev. 2.0	04/05/2016			04/07/2016	Peter D. Kaus	1786503
EPA 365.1 Rev. 2.0	04/05/2016	04/12/2016	Christopher Armour	04/12/2016	Lipi Saha	1786503
SM 2320 B-97	04/05/2016			04/08/2016	Dale L. Simmons	1786502
SM 2540 D-97	04/05/2016			04/07/2016	Yijie Li	1786502
SM 4500 F-C-97	04/05/2016			04/08/2016	Dale L. Simmons	1786502
SM 5310 B-00	04/05/2016			04/07/2016	Sofia Elnemr	1786503