

Chemical Analysis Report

SO-DIST-2016-09-22-01

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

Event Description: **Sanibel Dune Lakes**
Request ID: **RQ-2016-09-19-28**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901
Attn: Ben Paswater

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Environmental Administrator

Date Certified: 20-OCT-2016 10:09

A handwritten signature in black ink, appearing to read "Colin Wright", is placed over a light gray 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 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: DUNE LAKE 4 DOWNSTREAM OF WIER

Collection Date/Time: 09/21/2016 15:10

Field ID: DUNE LAKE 4 DOWNSTREAM OF WIER

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833628	EPA 180.1 Rev. 2.0	Turbidity	8.1	A	NTU	P311683	
	EPA 300.0 Rev. 2.1	Chloride	2.5E+03		mg Cl/L	P312257	
		Sulfate	390		mg SO4/L	P312252	
	SM 2120 B	Color (true)	49		PCU	P311910	
	SM 2320 B-97	Total Alkalinity	166		mg CaCO3/L	P311967	
	SM 2540 C-97	TDS	4.59E+03	J	mg/L	P312651	
	SM 2540 D-97	TSS	10		mg/L	P312180	
	SM 4500 F-C-97	Fluoride	0.70		mg F/L	P311778	
1833629	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P311952	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.4		mg N/L	P312389	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P312549	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P312906	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P312089	
1833630	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P311679	

Ref. Method and Comment:

SM 2540 C-97: Due to an incorrectly reported field conductivity, the sample residue exceeded the method limit of 200 mg. The result was confirmed on 09/30/2016.

SM 2540 D-97: 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: P311683

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P312252

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P312257

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P311952

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P312389

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312549

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312906

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311679

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

Reference Method: SM 2120 B
Batch ID: P311910

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P311967

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

Reference Method: SM 2540 C-97
Batch ID: P312651

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P312180

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P311778

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P312089

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: P312252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311952

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: P312389

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312549

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312906

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311679

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

Reference Method: SM 2320 B-97
Batch ID: P311967

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

Reference Method: SM 4500 F-C-97
Batch ID: P311778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P312089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833747	Sulfate	94.5		P	90 - 110
1833883	Sulfate	96.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833747	Chloride	98.7		P	90 - 110
1833883	Chloride	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833629	Ammonia-N	104	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834498	Kjeldahl Nitrogen	109	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833629	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833629	Total-P	98.0	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833630	O-Phosphate-P	100	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P311778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833322	Fluoride	100	101	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P312089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833329	Organic Carbon	98.1	99.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P311683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833628	Turbidity	0.739	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833747	Sulfate	1.25	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833747	Chloride	0.00913	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833629	Ammonia-N	0.267	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834498	Kjeldahl Nitrogen	7.59	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312549

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833629	NO2NO3-N	0.488	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833629	Total-P	2.54	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833630	O-Phosphate-P	0.820	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P311910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833850	Color (true)	0.304	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P311967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833320	Total Alkalinity	0.164	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P312651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833924	TDS	2.64	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P311778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833322	Fluoride	0.464	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P312089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833329	Organic Carbon	0.697	Spike	P	0 - 20

Quality Assurance Report Precision

* 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: A71780

Included Lab Sample IDs: 1833630

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A71781

Included Lab Sample IDs: 1833628

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

Reference Method: SM 4500 F-C-97

Run ID: A71811

Included Lab Sample IDs: 1833628

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

Reference Method: SM 2120 B

Run ID: A71860

Included Lab Sample IDs: 1833628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.5	97.7	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A71866

Included Lab Sample IDs: 1833629

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

Reference Method: SM 2320 B-97

Run ID: A71875

Included Lab Sample IDs: 1833628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A71882

Included Lab Sample IDs: 1833628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	98.6	P/P	90 - 110
Sulfate	98.7	95.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00
Run ID: A71905
Included Lab Sample IDs: 1833629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A72035
Included Lab Sample IDs: 1833629

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A72075
Included Lab Sample IDs: 1833629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.2	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A72179
Included Lab Sample IDs: 1833629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	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				0.739	
EPA 300.0 Rev. 2.1	Chloride	98.3	98.7 99.0		0.0091	
	Sulfate	96.5	94.5 96.4		1.25	
EPA 350.1 Rev. 2.0	Ammonia-N	103	104 104			0.267
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	109 99.7			7.59
EPA 353.2 Rev. 2.0	NO2NO3-N	103	103 102			0.488
EPA 365.1 Rev. 2.0	Total-P	100	98.0 101			2.54
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	100 102			0.820
SM 2120 B	Color (true)				0.304	
SM 2320 B-97	Total Alkalinity	103			0.164	
SM 2540 C-97	TDS				2.64	
SM 4500 F-C-97	Fluoride	99.2	100 101			0.464
SM 5310 B-00	Organic Carbon	100	98.1 99.3			0.697

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
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Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1833628
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1833628
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1833628
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1833629
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1833629
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1833629
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1833629
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1833630
SM 2120 B / E31780	True Color measured at 450 nm	1833628
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1833628
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1833628
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1833628
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1833628
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1833629

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	09/22/2016			09/22/2016 16:37	Sima Feizi	1833628
EPA 300.0 Rev. 2.1	09/22/2016			10/02/2016	Ping Hua	1833628
EPA 350.1 Rev. 2.0	09/22/2016			09/26/2016	Joseph Suarez	1833629
EPA 351.2 Rev. 2.0	09/22/2016	10/04/2016	Adrian Shelby	10/06/2016	Christopher Armour	1833629
EPA 353.2 Rev. 2.0	09/22/2016			10/05/2016	Beverly Y. Sanders	1833629
EPA 365.1 Rev. 2.0	09/22/2016	10/11/2016	Vijayalakshmi Reddy	10/12/2016	Lipi Saha	1833629
EPA 365.1 Rev. 2.0 dissolved	09/22/2016			09/22/2016 15:13	Julia Storbeck	1833630
SM 2120 B	09/22/2016			09/22/2016 18:46	Julie Michelle Frank	1833628
SM 2320 B-97	09/22/2016			09/27/2016	Dale L. Simmons	1833628
SM 2540 C-97	09/22/2016			09/26/2016	Sima Feizi	1833628
SM 2540 D-97	09/22/2016			09/26/2016	Sima Feizi	1833628
SM 4500 F-C-97	09/22/2016			09/24/2016	Dale L. Simmons	1833628
SM 5310 B-00	09/22/2016			09/28/2016	Julie Michelle Frank	1833629