Chemical Analysis Report

CEN-DIST-2016-09-23-01

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

Event Description: **Johns Lake+LVI**
Request ID: **RQ-2016-09-19-39**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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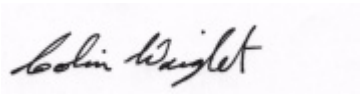
Certified by: Colin Wright, Environmental Administrator

Date Certified: 20-OCT-2016 10:26



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: Johns Lake @ 350 M SE of boat ramp on lake blvd South of SR 50 **Collection Date/Time: 09/22/2016 12:20**

Field ID: G1CE0036 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1834207	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P311759	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P312256	
		Sulfate	11		mg SO4/L	P312253	
	SM 2120 B	Color (true)	26		PCU	P311747	
	SM 2320 B-97	Total Alkalinity	33	A	mg CaCO3/L	P311965	
	SM 2540 C-97	TDS	117		mg/L	P312652	
	SM 2540 D-97	TSS	2	U	mg/L	P312181	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P311969	
1834208	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P312115	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P312213	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P312232	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P312404	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P312088	
1834209	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P311762	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P311759

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312253

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312256

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P312115

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312213

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: P312232

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312404

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311762

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

Reference Method: SM 2120 B
Batch ID: P311747

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P311965

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

Reference Method: SM 2540 C-97
Batch ID: P312652

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P312181

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P311969

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P312088

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: P312253

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312256

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P312115

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312213

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312232

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: P312404

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311762

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

Reference Method: SM 2320 B-97
Batch ID: P311965

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

Reference Method: SM 4500 F-C-97
Batch ID: P311969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	92 - 103

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P312088

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833924	Sulfate	97.1		P	90 - 110
1834067	Sulfate	96.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312256

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833924	Chloride	100		P	90 - 110
1834067	Chloride	99.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P312115

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834208	Ammonia-N	100	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312213

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834192	Kjeldahl Nitrogen	102	89.2	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834208	NO2NO3-N	99.9	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834191	Total-P	101	92.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834256	O-Phosphate-P	104	104	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P311969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834207	Fluoride	98.4	98.4	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P312088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834070	Organic Carbon	99.8	99.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P311759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834172	Turbidity	0.769	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312253

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833924	Sulfate	0.836	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312256

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833924	Chloride	0.0617	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P312115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834208	Ammonia-N	2.18	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834192	Kjeldahl Nitrogen	8.67	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834208	NO2NO3-N	1.48	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834191	Total-P	7.59	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834256	O-Phosphate-P	0.768	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P311747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834189	Color (true)	2.23	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P311965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834207	Total Alkalinity	0.0664	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P312652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834069	TDS	1.39	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P312181

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834069	TSS	0.0	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P311969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834207	Fluoride	0.0	Spike	P	0 - 3.0

Quality Assurance Report
Precision

Reference Method: SM 5310 B-00
Batch ID: P312088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834070	Organic Carbon	0.652	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: SM 2120 B
Run ID: A71806
Included Lab Sample IDs: 1834207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.7	96.7	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A71808
Included Lab Sample IDs: 1834207

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A71809
Included Lab Sample IDs: 1834209

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

Reference Method: SM 2320 B-97
Run ID: A71875
Included Lab Sample IDs: 1834207

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

Reference Method: SM 4500 F-C-97
Run ID: A71875
Included Lab Sample IDs: 1834207

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A71882
Included Lab Sample IDs: 1834207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.6	98.4	P/P	90 - 110
Sulfate	98.3	96.7	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-00
Run ID: A71905
Included Lab Sample IDs: 1834208

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A71914
Included Lab Sample IDs: 1834208

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A71950
Included Lab Sample IDs: 1834208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A72037
Included Lab Sample IDs: 1834208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A72047
Included Lab Sample IDs: 1834208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.3	94.0	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					0.769	
EPA 300.0 Rev. 2.1	Chloride	99.1	100	99.9		0.0617	
	Sulfate	96.7	97.1	96.2		0.836	
EPA 350.1 Rev. 2.0	Ammonia-N	102	100	102			2.18
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.4	102	89.2			8.67
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.9	98.4			1.48
EPA 365.1 Rev. 2.0	Total-P	98.8	101	92.6			7.59
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	104	104			0.768
SM 2120 B	Color (true)					2.23	
SM 2320 B-97	Total Alkalinity	103				0.0664	
SM 2540 C-97	TDS					1.39	

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2540 D-97	TSS					0.0	
SM 4500 F-C-97	Fluoride	97.9	98.4	98.4			0.0
SM 5310 B-00	Organic Carbon	99.3	99.8	99.0			0.652

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1834207
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1834207
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1834207
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1834208
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1834208
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1834208
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1834208
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1834209
SM 2120 B / E31780	True Color measured at 450 nm	1834207
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1834207
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1834207
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1834207
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1834207
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1834208

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	09/23/2016			09/23/2016 15:22	Sima Feizi	1834207
EPA 300.0 Rev. 2.1	09/23/2016			10/01/2016	Ping Hua	1834207
EPA 350.1 Rev. 2.0	09/23/2016			09/28/2016	Sofia Elnemr	1834208
EPA 351.2 Rev. 2.0	09/23/2016	09/30/2016	Adrian Shelby	10/06/2016	Christopher Armour	1834208
EPA 353.2 Rev. 2.0	09/23/2016			09/30/2016	Beverly Y. Sanders	1834208
EPA 365.1 Rev. 2.0	09/23/2016	10/04/2016	Vijayalakshmi Reddy	10/05/2016	Lipi Saha	1834208
EPA 365.1 Rev. 2.0 dissolved	09/23/2016			09/23/2016 16:47	Julia Storbeck	1834209
SM 2120 B	09/23/2016			09/23/2016 15:02	Blanca Fach	1834207
SM 2320 B-97	09/23/2016			09/26/2016	Dale L. Simmons	1834207
SM 2540 C-97	09/23/2016			09/26/2016	Sima Feizi	1834207
SM 2540 D-97	09/23/2016			09/26/2016	Sima Feizi	1834207
SM 4500 F-C-97	09/23/2016			09/26/2016	Dale L. Simmons	1834207
SM 5310 B-00	09/23/2016			09/28/2016	Julie Michelle Frank	1834208