

Chemical Analysis Report

CEN-DIST-2021-07-29-02

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

Event Description: **Little Haw Creek - WBID 2630C**

Request ID: **RQ-2021-07-26-49**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

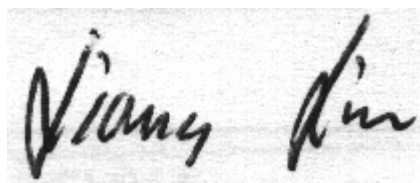
FL Dept. of Environmental Protection
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Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-AUG-2021 17:20

A handwritten signature in black ink, appearing to read "Liang Lin", is shown 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: Metals.

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: Little Haw Creek @ 25m DS of SR40

Collection Date/Time: 07/28/2021 11:04

Field ID: G2CE0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2265790	EPA 200.7 Rev. 4.4	Barium	8.7		ug/L	P401825	
		Calcium	5.29		mg/L	P401825	
		Iron	990		ug/L	P401825	
		Magnesium	1.32		mg/L	P401825	
		Manganese	9.1		ug/L	P401825	
		Potassium	1.1	I	mg/L	P401825	
		Sodium	9.7		mg/L	P401825	
	EPA 200.8 Rev. 5.4	Zinc	14	I	ug/L	P401825	
		Aluminum	571		ug/L	P401825	
		Antimony	0.050	U	ug/L	P401825	
		Arsenic	0.86		ug/L	P401825	
		Beryllium	0.024	I	ug/L	P401825	
		Boron**	28.2		ug/L	P401825	
		Cadmium	0.020	U	ug/L	P401825	
		Chromium	0.79	I	ug/L	P401825	
		Copper	0.40	U	ug/L	P402167	
		Lead	0.47		ug/L	P402167	
		Nickel	0.73	I	ug/L	P401825	
		Selenium	0.20	U	ug/L	P401825	
		Silver	0.010	U	ug/L	P401825	
		Thallium	0.10	U	ug/L	P401825	
	SM 2340B	Hardness	18.6		mg/L	P401825	

Sample Location: FB

Collection Date/Time: 07/28/2021 11:17

Field ID: FB_07282021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2265791	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P401825	
		Calcium	0.075	U	mg/L	P402262	
		Iron	30	U	ug/L	P401825	
		Magnesium	0.040	U	mg/L	P402262	
		Manganese	1.0	U	ug/L	P401825	
		Potassium	0.30	U	mg/L	P401825	
		Sodium	0.50	U	mg/L	P401825	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P401825	
		Aluminum	5.0	U	ug/L	P401825	
		Antimony	0.050	U	ug/L	P401825	
		Arsenic	0.050	U	ug/L	P401825	
		Beryllium	0.010	U	ug/L	P401825	
		Boron**	2.0	U	ug/L	P401825	
		Cadmium	0.020	U	ug/L	P401825	
		Chromium	0.40	U	ug/L	P401825	
		Copper	0.40	U	ug/L	P402262	
		Lead	0.20	U	ug/L	P401825	
		Nickel	0.50	U	ug/L	P401825	
		Selenium	0.20	U	ug/L	P401825	
		Silver	0.010	U	ug/L	P401825	
		Thallium	0.10	U	ug/L	P401825	
	SM 2340B	Hardness	0.35	U	mg/L	P402262	

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P401825

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Manganese	1.0	U	ug/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P402262

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Magnesium	0.040	U	mg/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P401825

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402167

Component	Result	Code	Units
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402262

Component	Result	Code	Units
Copper	0.40	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P401825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	98.9		P	85 - 115
Calcium	98.0		P	85 - 115
Iron	100		P	85 - 115
Magnesium	103		P	85 - 115
Manganese	98.9		P	85 - 115
Potassium	95.9		P	85 - 115
Sodium	101		P	85 - 115
Zinc	97.8		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P402262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	95.4		P	85 - 115
Magnesium	98.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P401825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	106		P	85 - 115
Arsenic	102		P	85 - 115
Beryllium	102		P	85 - 115
Boron	104		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	103		P	85 - 115
Lead	101		P	85 - 115
Nickel	105		P	85 - 115
Selenium	102		P	85 - 115
Silver	102		P	85 - 115
Thallium	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Copper	95.8		P	85 - 115
Lead	96.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Copper	93.0		P	85 - 115

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P401825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2265614	Barium	98.7	97.1	P/P	80 - 120
2265614	Calcium	103		P	80 - 120
2265614	Iron	103	102	P/P	80 - 120
2265614	Magnesium	105	103	P/P	80 - 120
2265614	Manganese	98.5	96.8	P/P	80 - 120
2265614	Potassium	102	102	P/P	80 - 120
2265614	Sodium	103	103	P/P	80 - 120
2265614	Zinc	99.3	97.1	P/P	80 - 120
2265686	Barium	102		P	80 - 120
2265686	Calcium	103		P	80 - 120
2265686	Iron	104		P	80 - 120
2265686	Magnesium	106		P	80 - 120
2265686	Manganese	101		P	80 - 120
2265686	Potassium	102		P	80 - 120
2265686	Sodium	105		P	80 - 120
2265686	Zinc	100		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P402262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2265003	Calcium	91.2		P	80 - 120
2265003	Magnesium	96.2		P	80 - 120
2265339	Calcium	104		P	80 - 120
2265339	Magnesium	94.1	95.9	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P401825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2265614	Aluminum	104	104	P/P	80 - 120
2265614	Antimony	105	106	P/P	80 - 120
2265614	Arsenic	99.4	100	P/P	80 - 120
2265614	Beryllium	105	104	P/P	80 - 120
2265614	Boron	106	105	P/P	80 - 120
2265614	Cadmium	102	100	P/P	80 - 120
2265614	Chromium	102	103	P/P	80 - 120
2265614	Lead	99.7	99.6	P/P	80 - 120
2265614	Nickel	102	103	P/P	80 - 120
2265614	Selenium	98.6	99.1	P/P	80 - 120
2265614	Silver	101	102	P/P	80 - 120
2265614	Thallium	108	109	P/P	80 - 120
2265686	Aluminum	97.9		P	80 - 120
2265686	Antimony	103		P	80 - 120
2265686	Arsenic	101		P	80 - 120
2265686	Beryllium	103		P	80 - 120
2265686	Boron	102		P	80 - 120
2265686	Cadmium	102		P	80 - 120
2265686	Chromium	102		P	80 - 120
2265686	Lead	100		P	80 - 120
2265686	Nickel	105		P	80 - 120
2265686	Selenium	96.8		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P401825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2265686	Silver	102		P	80 - 120
2265686	Thallium	108		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402167

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2264638	Copper	93.1	92.4	P/P	80 - 120
2264638	Lead	93.4	92.7	P/P	80 - 120
2265323	Copper	94.1		P	80 - 120
2265323	Lead	94.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2265003	Copper	91.6		P	80 - 120
2265339	Copper	111	94.2	P/P	80 - 120

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P401825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2265614	Barium	1.62	Spike	P	0 - 20
2265614	Calcium	0.558	Spike	P	0 - 20
2265614	Iron	0.970	Spike	P	0 - 20
2265614	Magnesium	1.03	Spike	P	0 - 20
2265614	Manganese	1.69	Spike	P	0 - 20
2265614	Potassium	0.0957	Spike	P	0 - 20
2265614	Sodium	0.189	Spike	P	0 - 20
2265614	Zinc	2.19	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P402262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2265339	Calcium	1.27	Spike	P	0 - 20
2265339	Magnesium	1.76	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P401825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2265614	Aluminum	0.368	Spike	P	0 - 20
2265614	Antimony	0.239	Spike	P	0 - 20
2265614	Arsenic	0.851	Spike	P	0 - 20
2265614	Beryllium	0.132	Spike	P	0 - 20
2265614	Boron	1.34	Spike	P	0 - 20
2265614	Cadmium	1.17	Spike	P	0 - 20
2265614	Chromium	0.861	Spike	P	0 - 20
2265614	Lead	0.128	Spike	P	0 - 20
2265614	Nickel	0.994	Spike	P	0 - 20
2265614	Selenium	0.546	Spike	P	0 - 20
2265614	Silver	0.723	Spike	P	0 - 20
2265614	Thallium	0.942	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264638	Copper	0.816	Spike	P	0 - 20
2264638	Lead	0.710	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P402262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2265339	Copper	16.8	Spike	P	0 - 20

Quality Assurance Report

Precision

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A107013

Included Lab Sample IDs: 2265790, 2265791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	104	P/P	90 - 110
Aluminum	106	105	P/P	90 - 110
Antimony	103	104	P/P	90 - 110
Antimony	105	104	P/P	90 - 110
Arsenic	104	103	P/P	90 - 110
Arsenic	104	104	P/P	90 - 110
Beryllium	101	103	P/P	90 - 110
Beryllium	104	104	P/P	90 - 110
Boron	102	103	P/P	90 - 110
Boron	98.9	102	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Cadmium	102	102	P/P	90 - 110
Chromium	101	103	P/P	90 - 110
Chromium	103	104	P/P	90 - 110
Nickel	104	105	P/P	90 - 110
Nickel	105	105	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Silver	95.2	95.6	P/P	90 - 110
Silver	96.2	95.8	P/P	90 - 110
Thallium	107	107	P/P	90 - 110
Thallium	108	107	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A107030

Included Lab Sample IDs: 2265790, 2265791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.0	97.2	P/P	90 - 110
Barium	99.2	99.0	P/P	90 - 110
Calcium	98.2	100	P/P	90 - 110
Iron	100	98.7	P/P	90 - 110
Iron	98.8	100	P/P	90 - 110
Magnesium	98.1	99.8	P/P	90 - 110
Manganese	102	102	P/P	90 - 110
Manganese	102	101	P/P	90 - 110
Potassium	102	99.8	P/P	90 - 110
Potassium	99.2	102	P/P	90 - 110
Sodium	101	103	P/P	90 - 110
Sodium	103	101	P/P	90 - 110
Zinc	102	103	P/P	90 - 110
Zinc	103	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A107042

Included Lab Sample IDs: 2265791

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A107160

Included Lab Sample IDs: 2265790

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	92.8	95.8	P/P	90 - 110
Lead	93.0	95.7	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A107192

Included Lab Sample IDs: 2265791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	91.6	91.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A107224

Included Lab Sample IDs: 2265791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.8	99.0	P/P	95 - 105
Magnesium	95.3	98.6	P/P	95 - 105

* 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 SMP	MS
			LCS				
EPA 200.7 Rev. 4.4	Barium	98.9	98.7	97.1	102		1.62
	Calcium	98.0	103	103			0.558
	Calcium	95.4	91.2	104			1.27
	Iron	100	103	102	104		0.970
	Magnesium	103	105	103	106		1.03
	Magnesium	98.5	96.2	94.1	95.9		1.76
	Manganese	98.9	98.5	96.8	101		1.69
	Potassium	95.9	102	102	102		0.0957
	Sodium	101	103	103	105		0.189
	Zinc	97.8	99.3	97.1	100		2.19
EPA 200.8 Rev. 5.4	Aluminum	103	97.9	104	104		0.368
	Antimony	106	103	105	106		0.239
	Arsenic	102	101	99.4	100		0.851
	Beryllium	102	103	105	104		0.132
	Boron	104	102	106	105		1.34
	Cadmium	103	102	102	100		1.17
	Chromium	103	102	102	103		0.861
	Copper	95.8	93.1	92.4	94.1		0.816
	Copper	93.0	111	94.2	91.6		16.8
	Lead	101	100	99.7	99.6		0.128
	Lead	96.4	93.4	92.7	94.1		0.710
	Nickel	105	105	102	103		0.994
	Selenium	102	96.8	98.6	99.1		0.546
	Silver	102	102	101	102		0.723
	Thallium	106	108	108	109		0.942

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2265790, 2265791
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2265790, 2265791
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2265790, 2265791

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	07/29/2021	08/02/2021 14:50	Elliott D. Healy	08/04/2021 15:49	Betina Topolski	2265790
	07/29/2021	08/02/2021 14:50	Elliott D. Healy	08/04/2021 16:59	Betina Topolski	2265791
	07/29/2021	08/10/2021 16:20	Elliott D. Healy	08/12/2021 13:12	Josef B Mick	2265791
EPA 200.8 Rev. 5.4	07/29/2021	08/02/2021 14:50	Elliott D. Healy	08/03/2021 17:41	Alexander Thompson	2265791
	07/29/2021	08/02/2021 14:50	Elliott D. Healy	08/03/2021 22:01	Alexander Thompson	2265790
	07/29/2021	08/02/2021 14:50	Elliott D. Healy	08/04/2021 11:17	Alexander Thompson	2265791
	07/29/2021	08/09/2021 13:00	Elliott D. Healy	08/10/2021 15:27	Alexander Thompson	2265790
	07/29/2021	08/10/2021 16:20	Elliott D. Healy	08/11/2021 15:51	Alexander Thompson	2265791
SM 2340B	07/29/2021			08/04/2021 15:49	Betina Topolski	2265790
	07/29/2021			08/12/2021 13:12	Josef B Mick	2265791