

Chemical Analysis Report

SO-DIST-2021-12-08-01

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

Event Description: **2021 SMP : Everglades**
Request ID: **RQ-2021-09-20-55**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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Date Certified: 29-DEC-2021 12:28



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 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: 8069 - ENRE5

Collection Date/Time: 12/07/2021 11:55

Field ID: G5SD0036

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293872	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P407224	RPD
	SM 2320 B-2011	Total Alkalinity	143		mg CaCO3/L	P407291	
	SM 2540 D-2011	TSS	4	I	mg/L	P407698	
	SM 4500 F-C-2011	Fluoride	1.1		mg F/L	P407295	
2293875	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P407751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32	I	mg N/L	P407799	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P407311	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P407174	
	SM 5310 B-2011	Organic Carbon	4.9		mg C/L	P407414	
2293878	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P407219	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: 8067 ENRE 9 Near First Bay

Collection Date/Time: 12/07/2021 12:45

Field ID: G5SD0107

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293873	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P407224	RPD
	SM 2320 B-2011	Total Alkalinity	131		mg CaCO3/L	P407291	
	SM 2540 D-2011	TSS	6	I	mg/L	P407698	
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P407295	
2293876	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P407751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P407799	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P407311	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P407174	
	SM 5310 B-2011	Organic Carbon	4.0		mg C/L	P407414	
2293879	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P407219	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: 8066 @ ENRE5

Collection Date/Time: 12/07/2021 10:45

Field ID: G5SD0039

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293874	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P407224	RPD
	SM 2320 B-2011	Total Alkalinity	143		mg CaCO3/L	P407291	
	SM 2540 D-2011	TSS	5	I	mg/L	P407698	
	SM 4500 F-C-2011	Fluoride	1.1		mg F/L	P407295	
2293877	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P407751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.38	I	mg N/L	P407799	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P407311	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P407174	
	SM 5310 B-2011	Organic Carbon	4.6		mg C/L	P407414	
2293880	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P407219	

Ref. Method and Comment:

SM 2540 D-2011: 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: P407224

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407751

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407799

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407311

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407174

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407219

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

Reference Method: SM 2320 B-2011
Batch ID: P407291

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 D-2011
Batch ID: P407698

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P407295

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P407414

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: P407751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407311

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: P407174

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407219

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

Reference Method: SM 2320 B-2011
Batch ID: P407291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P407295

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P407414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293875	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293702	Kjeldahl Nitrogen	99.5	96.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407311

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293877	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407174

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293723	Total-P	98.4	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293880	O-Phosphate-P	101	103	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P407295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293999	Fluoride	99.8	101	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P407414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294040	Organic Carbon	93.1	91.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293856	Turbidity	17.4	Sample	F	0 - 15

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293875	Ammonia-N	0.355	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293702	Kjeldahl Nitrogen	2.84	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407311

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293877	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293723	Total-P	0.545	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293880	O-Phosphate-P	2.25	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P407291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293999	Total Alkalinity	4.18	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P407295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293999	Fluoride	0.473	Spike	P	0 - 2.1

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P407414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294040	Organic Carbon	1.09	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109275

Included Lab Sample IDs: 2293878, 2293879, 2293880

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	101	P/P	90 - 110
O-Phosphate-P	102	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109277

Included Lab Sample IDs: 2293872, 2293873, 2293874

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

Reference Method: SM 2320 B-2011

Run ID: A109312

Included Lab Sample IDs: 2293872, 2293873, 2293874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A109312

Included Lab Sample IDs: 2293872, 2293873, 2293874

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109319

Included Lab Sample IDs: 2293875, 2293876, 2293877

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

Reference Method: SM 5310 B-2011

Run ID: A109369

Included Lab Sample IDs: 2293875, 2293876, 2293877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.8	94.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109370

Included Lab Sample IDs: 2293875, 2293876, 2293877

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109511

Included Lab Sample IDs: 2293875, 2293876, 2293877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	104	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109511

Included Lab Sample IDs: 2293875, 2293876, 2293877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109562

Included Lab Sample IDs: 2293875, 2293876, 2293877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.7	96.3	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					17.4 RSD	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	102	102			0.355
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.4	99.5	96.2			2.84
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	103	103			0.0
EPA 365.1 Rev. 2.0	Total-P	103	98.4	99.0			0.545
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	101	103			2.25
SM 2320 B-2011	Total Alkalinity	98.6				4.18	
SM 4500 F-C-2011	Fluoride	102	99.8	101			0.473
SM 5310 B-2011	Organic Carbon	94.2	93.1	91.8			1.09

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2293872, 2293873, 2293874
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2293875, 2293876, 2293877
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2293875, 2293876, 2293877
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2293875, 2293876, 2293877
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2293875, 2293876, 2293877
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2293878, 2293879, 2293880
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2293872, 2293873, 2293874
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2293872, 2293873, 2293874
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2293872, 2293873, 2293874
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2293875, 2293876, 2293877

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	12/08/2021			12/08/2021 16:09	Khloe J Berg	2293872, 2293873, 2293874
EPA 350.1 Rev. 2.0	12/08/2021			12/21/2021 12:24	Ping Hua	2293876
	12/08/2021			12/21/2021 12:26	Ping Hua	2293877
	12/08/2021			12/21/2021 13:59	Ping Hua	2293875
EPA 351.2 Rev. 2.0	12/08/2021	12/22/2021 12:07	Samantha L Bates	12/27/2021 11:49	Alexandra J Mattheus	2293875
	12/08/2021	12/22/2021 12:07	Samantha L Bates	12/27/2021 11:51	Alexandra J Mattheus	2293876
	12/08/2021	12/22/2021 12:07	Samantha L Bates	12/27/2021 11:52	Alexandra J Mattheus	2293877
EPA 353.2 Rev. 2.0	12/08/2021			12/10/2021 12:32	Nathaniel J Jones	2293877
	12/08/2021			12/10/2021 12:43	Nathaniel J Jones	2293875
	12/08/2021			12/10/2021 12:44	Nathaniel J Jones	2293876
EPA 365.1 Rev. 2.0	12/08/2021	12/09/2021 14:45	Simonne.V. Calhoun	12/14/2021 12:51	Shengyu Ding	2293875
	12/08/2021	12/09/2021 14:45	Simonne.V. Calhoun	12/14/2021 12:52	Shengyu Ding	2293876
	12/08/2021	12/09/2021 14:45	Simonne.V. Calhoun	12/14/2021 12:53	Shengyu Ding	2293877
EPA 365.1 Rev. 2.0 dissolved	12/08/2021			12/08/2021 15:15	James L Waggeberby	2293880
	12/08/2021			12/08/2021 15:22	James L Waggeberby	2293878
	12/08/2021			12/08/2021 15:23	James L Waggeberby	2293879
SM 2320 B-2011	12/08/2021			12/10/2021 04:52	Dale L. Simmons	2293872
	12/08/2021			12/10/2021 05:06	Dale L. Simmons	2293873
	12/08/2021			12/10/2021 05:20	Dale L. Simmons	2293874
SM 2540 D-2011	12/08/2021			12/10/2021 15:28	Yijie Li	2293872, 2293873, 2293874
SM 4500 F-C-2011	12/08/2021			12/10/2021 03:42	Dale L. Simmons	2293872
	12/08/2021			12/10/2021 03:48	Dale L. Simmons	2293873
	12/08/2021			12/10/2021 03:53	Dale L. Simmons	2293874
SM 5310 B-2011	12/08/2021			12/14/2021 07:22	Khloe J Berg	2293875
	12/08/2021			12/14/2021 07:37	Khloe J Berg	2293876
	12/08/2021			12/14/2021 07:53	Khloe J Berg	2293877