

Chemical Analysis Report

CEN-DIST-2018-11-07-06

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

Event Description: **SJR above Wekiva (2893C) + HA**
Request ID: **RQ-2018-10-01-48**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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3319 Maguire Blvd., Suite 232
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 30-NOV-2018 15:53

A handwritten signature in black ink, appearing to read "Liang Lin", 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: 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: SJR @ 525m west of Fort Florida Rd

Collection Date/Time: 11/06/2018 11:05

Field ID: G2CE0165

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2040111	EPA 180.1 Rev. 2.0	Turbidity	2.8	A	NTU	P354481	
	EPA 300.0 Rev. 2.1	Chloride	170		mg Cl/L	P355177	
		Sulfate	29		mg SO4/L	P355119	
	SM 2120 B	Color (true)	170	A	PCU	P354455	
	SM 2320 B-97	Total Alkalinity	59		mg CaCO3/L	P354579	
	SM 2540 C-97	TDS	446		mg/L	P354847	
	SM 2540 D-97	TSS	3	I	mg/L	P354794	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P354582	
2040112	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P354693	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P354643	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P354673	
	EPA 365.1 Rev. 2.0	Total-P	0.081		mg P/L	P354658	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P354547	
2040113	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.046		mg P/L	P354420	

Ref. Method and Comment:

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: P354481

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355119

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355177

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354693

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P354643

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P354673

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P354658

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P354420

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

Reference Method: SM 2120 B
Batch ID: P354455

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P354579

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

Reference Method: SM 2540 C-97
Batch ID: P354847

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P354794

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P354582

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P354547

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: P355119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355177

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P354643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P354673

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P354658

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: P354420

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

Reference Method: SM 2120 B
Batch ID: P354455

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P354579

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	98 - 107

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P354582

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

Reference Method: SM 5310 B-00
Batch ID: P354547

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355119

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2039201	Sulfate	99.3		P	90 - 110
2039941	Sulfate	95.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2039266	Chloride	92.9		P	90 - 110
2040877	Chloride	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354693

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2039729	Ammonia-N	99.4	92.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P354643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2039742	Kjeldahl Nitrogen	103	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P354673

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2039920	NO2NO3-N	97.6	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P354658

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2040263	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P354420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2040280	O-Phosphate-P	96.8	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P354582

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2040253	Fluoride	100	100	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P354547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2040031	Organic Carbon	97.5		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P354481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2040111	Turbidity	11.3	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2039201	Sulfate	1.41	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2039266	Chloride	0.816	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2039729	Ammonia-N	4.19	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P354643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2039742	Kjeldahl Nitrogen	4.62	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P354673

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2039920	NO2NO3-N	0.909	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P354658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2040263	Total-P	0.319	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P354420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2040280	O-Phosphate-P	2.86	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P354455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2040111	Color (true)	1.80	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P354579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2040253	Total Alkalinity	0.804	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P354847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2039918	TDS	3.96	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P354582

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2040253	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P354547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2040031	Organic Carbon	0.300	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: EPA 365.1 Rev. 2.0 dissolved

Run ID: A87628

Included Lab Sample IDs: 2040113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	99.0	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A87643

Included Lab Sample IDs: 2040111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A87659

Included Lab Sample IDs: 2040111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: SM 5310 B-00

Run ID: A87699

Included Lab Sample IDs: 2040112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	94.3	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A87712

Included Lab Sample IDs: 2040111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.5	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A87712

Included Lab Sample IDs: 2040111

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: A87753

Included Lab Sample IDs: 2040112

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A87761

Included Lab Sample IDs: 2040112

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A87779

Included Lab Sample IDs: 2040112

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A87831

Included Lab Sample IDs: 2040112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A87936

Included Lab Sample IDs: 2040111

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A87993

Included Lab Sample IDs: 2040111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	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		Precision	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				11.3	
EPA 300.0 Rev. 2.1	Chloride	99.5	92.9	98.9	0.816	
	Sulfate	97.7	99.3	95.7	1.41	
EPA 350.1 Rev. 2.0	Ammonia-N	98.5	99.4	92.7		4.19
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	103	110		4.62
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	97.6	98.6		0.909
EPA 365.1 Rev. 2.0	Total-P	103	103	103		0.319
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	96.8	100		2.86
SM 2120 B	Color (true)	100			1.80	
SM 2320 B-97	Total Alkalinity	101			0.804	
SM 2540 C-97	TDS				3.96	
SM 4500 F-C-97	Fluoride	101	100	100		0.0
SM 5310 B-00	Organic Carbon	94.8	97.5			0.300

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2040111
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2040111
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2040111
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2040112
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2040112
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2040112
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2040112
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2040113
SM 2120 B / E31780	True Color measured at 450 nm	2040111
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2040111
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2040111
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2040111
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2040111
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2040112

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	11/07/2018			11/07/2018 18:20	Megan Treadwell	2040111
EPA 300.0 Rev. 2.1	11/07/2018			11/26/2018 21:44	Lipi Saha	2040111
	11/07/2018			11/27/2018 18:26	Lipi Saha	2040111
EPA 350.1 Rev. 2.0	11/07/2018			11/13/2018 13:23	Ping Hua	2040112
EPA 351.2 Rev. 2.0	11/07/2018	11/14/2018 10:50	Adrian Shelby	11/16/2018 11:24	Joseph Suarez	2040112
EPA 353.2 Rev. 2.0	11/07/2018			11/14/2018 13:19	Lauren Bottorf	2040112
EPA 365.1 Rev. 2.0	11/07/2018	11/14/2018 12:30	Sima Feizi	11/15/2018 10:03	Beverly Y. Sanders	2040112
EPA 365.1 Rev. 2.0 dissolved	11/07/2018			11/07/2018 17:16	Julia Storbeck	2040113
SM 2120 B	11/07/2018			11/07/2018 17:37	Chelsea Hernandez	2040111
SM 2320 B-97	11/07/2018			11/10/2018 10:57	Dale L. Simmons	2040111
SM 2540 C-97	11/07/2018			11/09/2018 16:54	Yijie Li	2040111
SM 2540 D-97	11/07/2018			11/09/2018 16:54	Yijie Li	2040111
SM 4500 F-C-97	11/07/2018			11/10/2018 10:57	Dale L. Simmons	2040111
SM 5310 B-00	11/07/2018			11/09/2018 09:45	Megan Treadwell	2040112