

Chemical Analysis Report

SO-DIST-2016-10-11-01

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

Event Description: **SMP: Little Charlie Bowlegs**
Request ID: **RQ-2016-10-10-63**
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 33901-3381
Attn: Ben Paswater

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Certified by: Colin Wright, Environmental Administrator

Date Certified: 02-NOV-2016 14:58

A handwritten signature in black ink, appearing to read "Colin Wright", is written on a light-colored 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: LITTLE CHARLEY BOWLEGS CK, HHSP

Collection Date/Time: 10/10/2016 12:50

Field ID: G4SD101016-99

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1839473	EPA 180.1 Rev. 2.0	Turbidity	0.75		NTU	P312973	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P313186	
		Sulfate	9.7		mg SO4/L	P313182	
	SM 2120 B	Color (true)	250		PCU	P312921	
	SM 2320 B-97	Total Alkalinity	21		mg CaCO3/L	P313058	
	SM 2540 C-97	TDS	119		mg/L	P313423	
	SM 2540 D-97	TSS	2	I	mg/L	P313431	
	SM 4500 F-C-97	Fluoride	0.099	I	mg F/L	P312953	
1839474	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P313505	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.081	I	mg N/L	P313448	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P313221	
	EPA 365.1 Rev. 2.0	Total-P	0.43		mg P/L	P313755	
	SM 5310 B-00	Organic Carbon	22		mg C/L	P313092	
1839475	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.39		mg P/L	P312916	

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: P312973

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P313182

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P313186

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P313505

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P313448

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: P313221

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313755

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P312916

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

Reference Method: SM 2120 B
Batch ID: P312921

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P313058

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

Reference Method: SM 2540 C-97
Batch ID: P313423

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P313431

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P312953

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P313092

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: P313182

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313186

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313505

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313448

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: P313221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P312916

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

Reference Method: SM 2320 B-97
Batch ID: P313058

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P312953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P313092

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: P313182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839473	Sulfate	91.8		P	90 - 110
1839780	Sulfate	93.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P313186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839473	Chloride	98.1		P	90 - 110
1839780	Chloride	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P313505

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839493	Ammonia-N	96.9	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P313448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839440	Kjeldahl Nitrogen	97.3	97.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P313221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839434	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P313755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839441	Total-P	101	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P312916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839465	O-Phosphate-P	97.5	98.6	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P312953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839014	Fluoride	98.7	100	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P313092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839314	Organic Carbon	95.8	96.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P312973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839459	Turbidity	4.62	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839780	Sulfate	17.1	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P313186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839780	Chloride	0.198	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313505

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839493	Ammonia-N	1.69	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839440	Kjeldahl Nitrogen	0.0310	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313221

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: P313221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839434	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839441	Total-P	2.57	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P312916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839465	O-Phosphate-P	0.819	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P312921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839526	Color (true)	0.291	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P313058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839403	Total Alkalinity	0.331	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P313423

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839460	TDS	7.14	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P312953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839014	Fluoride	0.972	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P313092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839314	Organic Carbon	0.161	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: A72157

Included Lab Sample IDs: 1839475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.2	97.1	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A72158

Included Lab Sample IDs: 1839473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	100	P/P	85 - 115

Reference Method: SM 4500 F-C-97

Run ID: A72166

Included Lab Sample IDs: 1839473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A72177

Included Lab Sample IDs: 1839473

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

Reference Method: SM 2320 B-97

Run ID: A72195

Included Lab Sample IDs: 1839473

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: A72200

Included Lab Sample IDs: 1839473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.8	97.3	P/P	90 - 110
Sulfate	98.2	99.7	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A72203

Included Lab Sample IDs: 1839474

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A72235

Included Lab Sample IDs: 1839474

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A72319

Included Lab Sample IDs: 1839474

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A72400

Included Lab Sample IDs: 1839474

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	94.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A72409

Included Lab Sample IDs: 1839474

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	103	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				4.62	
EPA 300.0 Rev. 2.1	Chloride	97.4	96.7 98.1		0.198	
	Sulfate	94.6	93.6 91.8		17.1	
EPA 350.1 Rev. 2.0	Ammonia-N	106	96.9 98.8			1.69
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.4	97.3 97.3			0.0310
EPA 353.2 Rev. 2.0	NO2NO3-N	107	106 106			0.0
EPA 365.1 Rev. 2.0	Total-P	97.6	101 98.0			2.57
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	97.5 98.6			0.819
SM 2120 B	Color (true)				0.291	
SM 2320 B-97	Total Alkalinity	104			0.331	
SM 2540 C-97	TDS				7.14	
SM 4500 F-C-97	Fluoride	98.5	98.7 100			0.972
SM 5310 B-00	Organic Carbon	100	95.8 96.0			0.161

Reference Method Descriptions

Method / DoH Cert #

Description

Associated Samples

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1839473
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1839473
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1839473
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1839474
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1839474
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1839474
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1839474
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1839475
SM 2120 B / E31780	True Color measured at 450 nm	1839473
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1839473
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1839473
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1839473
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1839473
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1839474

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	10/11/2016			10/11/2016 15:51	Blanca Fach	1839473
EPA 300.0 Rev. 2.1	10/11/2016			10/13/2016	Ping Hua	1839473
EPA 350.1 Rev. 2.0	10/11/2016			10/19/2016	Sofia Elnemr	1839474
EPA 351.2 Rev. 2.0	10/11/2016	10/19/2016	Adrian Shelby	10/24/2016	Joseph Suarez	1839474
EPA 353.2 Rev. 2.0	10/11/2016			10/14/2016	Beverly Y. Sanders	1839474
EPA 365.1 Rev. 2.0	10/11/2016	10/24/2016	Vijayalakshmi Reddy	10/25/2016	Lipi Saha	1839474
EPA 365.1 Rev. 2.0 dissolved	10/11/2016			10/11/2016 15:35	Julia Storbeck	1839475
SM 2120 B	10/11/2016			10/11/2016 15:04	Julie Michelle Frank	1839473
SM 2320 B-97	10/11/2016			10/13/2016	Dale L. Simmons	1839473
SM 2540 C-97	10/11/2016			10/12/2016	Yijie Li	1839473
SM 2540 D-97	10/11/2016			10/12/2016	Yijie Li	1839473
SM 4500 F-C-97	10/11/2016			10/12/2016	Dale L. Simmons	1839473
SM 5310 B-00	10/11/2016			10/12/2016	Julie Michelle Frank	1839474