Chemical Analysis Report

CEN-DIST-2017-09-14-01

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

Event Description: **Lk Felter / Lady Lk**
Request ID: **RQ-2017-09-11-43**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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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: Lake Felter @ Center **Collection Date/Time: 09/13/2017 10:19**

Field ID: G1CE0042 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1928946	EPA 180.1 Rev. 2.0	Turbidity	1.8	A	NTU	P331655	
	EPA 300.0 Rev. 2.1	Chloride	19	A	mg Cl/L	P331809	
		Sulfate	3.0	A	mg SO4/L	P331808	
	SM 2120 B	Color (true)	59	A	PCU	P331657	
	SM 2320 B-97	Total Alkalinity	17		mg CaCO3/L	P331804	
	SM 2540 C-97	TDS	112		mg/L	P332017	
	SM 2540 D-97	TSS	2	U	mg/L	P331811	
	SM 4500 F-C-97	Fluoride	0.080	I	mg F/L	P331806	
1928948	EPA 350.1 Rev. 2.0	Ammonia-N	0.069		mg N/L	P331841	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P331802	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P331815	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P331915	
	SM 5310 B-00	Organic Carbon	24		mg C/L	P332048	
1928950	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P331637	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lady Lake @ Center of N Lobe **Collection Date/Time: 09/13/2017 11:53**

Field ID: G4CE0139 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1928947	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P331655	
	EPA 300.0 Rev. 2.1	Chloride	8.6		mg Cl/L	P331809	
		Sulfate	6.5		mg SO4/L	P331808	
	SM 2120 B	Color (true)	16		PCU	P331657	
	SM 2320 B-97	Total Alkalinity	1.1	I	mg CaCO3/L	P331804	
	SM 2540 C-97	TDS	39		mg/L	P332017	
	SM 2540 D-97	TSS	4	I	mg/L	P331811	
	SM 4500 F-C-97	Fluoride	0.052	I	mg F/L	P331806	
1928949	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P331841	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P331802	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P331815	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P331915	
	SM 5310 B-00	Organic Carbon	5.8		mg C/L	P332048	
1928951	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P331637	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P331655

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331808

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331809

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331841

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331802

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331815

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331915

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331637

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

Reference Method: SM 2120 B
Batch ID: P331657

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P331804

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

Reference Method: SM 2540 C-97
Batch ID: P332017

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331811

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P331806

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P332048

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: P331808

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331809

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	105		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331802

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	93.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331637

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	105		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P331804

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P331806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.4		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P332048

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928946	Sulfate	95.1		P	90 - 110
1928969	Sulfate	92.7		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331809

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928946	Chloride	94.2		P	90 - 110
1928969	Chloride	93.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928918	Ammonia-N	101	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928948	NO2NO3-N	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928948	Total-P	91.0	93.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331637

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928926	O-Phosphate-P	96.2	98.0	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P331806

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928915	Fluoride	94.6	94.6	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P332048

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928919	Organic Carbon	95.6	96.4	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P331655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928946	Turbidity	1.63	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331808

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928946	Sulfate	0.249	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331809

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928946	Chloride	0.0716	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928918	Ammonia-N	1.87	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928948	Kjeldahl Nitrogen	0.476	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928948	NO2NO3-N	1.32	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928948	Total-P	2.36	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331637

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928926	O-Phosphate-P	1.36	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P331657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928946	Color (true)	2.70	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2320 B-97
Batch ID: P331804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928915	Total Alkalinity	0.178	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P332017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928909	TDS	2.94	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P331806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928915	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P332048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928919	Organic Carbon	0.938	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: A78912
Included Lab Sample IDs: 1928950, 1928951

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A78924
Included Lab Sample IDs: 1928946, 1928947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: SM 2120 B
Run ID: A78925
Included Lab Sample IDs: 1928946, 1928947

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 2320 B-97
Run ID: A78985
Included Lab Sample IDs: 1928946, 1928947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A78985
Included Lab Sample IDs: 1928946, 1928947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.5	98.1	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A78987
Included Lab Sample IDs: 1928946, 1928947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	99.4	99.0	P/P	90 - 110
Sulfate	100	99.3	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A78997
Included Lab Sample IDs: 1928948, 1928949

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A79012
Included Lab Sample IDs: 1928948, 1928949

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A79058
Included Lab Sample IDs: 1928948, 1928949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	95.0	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A79077
Included Lab Sample IDs: 1928948, 1928949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	94.2	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A79103
Included Lab Sample IDs: 1928948, 1928949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	98.2	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					1.63	
EPA 300.0 Rev. 2.1	Chloride	98.7	94.2	93.0		0.0716	
	Sulfate	97.8	95.1	92.7		0.249	
EPA 350.1 Rev. 2.0	Ammonia-N	105	101	99.4			1.87
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102					0.476
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	105			1.32
EPA 365.1 Rev. 2.0	Total-P	93.0	91.0	93.3			2.36
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	105	96.2	98.0			1.36
SM 2120 B	Color (true)					2.70	
SM 2320 B-97	Total Alkalinity	101				0.178	
SM 2540 C-97	TDS					2.94	
SM 4500 F-C-97	Fluoride	96.4	94.6	94.6			0.0
SM 5310 B-00	Organic Carbon	95.8	95.6	96.4			0.938

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1928946, 1928947
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1928946, 1928947
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1928946, 1928947
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1928948, 1928949
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1928948, 1928949
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1928948, 1928949
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1928948, 1928949
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1928950, 1928951
SM 2120 B / E31780	True Color measured at 450 nm	1928946, 1928947
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1928946, 1928947
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1928946, 1928947
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1928946, 1928947
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1928946, 1928947
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1928948, 1928949

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	09/14/2017			09/14/2017 14:48	DeAsia Armster	1928946, 1928947
EPA 300.0 Rev. 2.1	09/14/2017			09/18/2017	Julia Storbeck	1928946, 1928947
EPA 350.1 Rev. 2.0	09/14/2017			09/19/2017	Sofia Elnemr	1928948, 1928949
EPA 351.2 Rev. 2.0	09/14/2017	09/19/2017	Adrian Shelby	09/21/2017	Tanya Welborn	1928948, 1928949
EPA 353.2 Rev. 2.0	09/14/2017			09/19/2017	Beverly Y. Sanders	1928948, 1928949
EPA 365.1 Rev. 2.0	09/14/2017	09/20/2017	Sima Feizi	09/22/2017	Lipi Saha	1928948, 1928949
EPA 365.1 Rev. 2.0 dissolved	09/14/2017			09/14/2017 14:13	Megan Treadwell	1928950
	09/14/2017			09/14/2017 14:14	Megan Treadwell	1928951
SM 2120 B	09/14/2017			09/14/2017 16:26	DeAsia Armster	1928946
	09/14/2017			09/14/2017 16:27	DeAsia Armster	1928947
SM 2320 B-97	09/14/2017			09/18/2017	Dale L. Simmons	1928946, 1928947
SM 2540 C-97	09/14/2017			09/15/2017	DeAsia Armster	1928946, 1928947
SM 2540 D-97	09/14/2017			09/18/2017	DeAsia Armster	1928946, 1928947
SM 4500 F-C-97	09/14/2017			09/18/2017	Dale L. Simmons	1928946, 1928947
SM 5310 B-00	09/14/2017			09/21/2017	Ping Hua	1928948, 1928949