

Chemical Analysis Report

CEN-DIST-2016-01-28-01

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

Event Description: **Catfish Crk+HA/Lk Amoret+DO**
Request ID: **RQ-2016-01-25-11**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 12-FEB-2016 15:54

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: CATFISH CREEK @ 450M DS OF LAKE PIERCE Collection Date/Time: 01/27/2016 11:43

Field ID: G4CE0086

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1766216	EPA 180.1 Rev. 2.0	Turbidity	2.0	A	NTU	P297715	
	EPA 300.0 Rev. 2.1	Chloride	12	A	mg Cl/L	P298130	
		Sulfate	21	A	mg SO4/L	P298127	
	SM 2120 B	Color (true)	45	A	PCU	P297756	
	SM 2320 B-97	Total Alkalinity	25		mg CaCO3/L	P298140	
	SM 2540 C-97	TDS	87		mg/L	P298334	
	SM 2540 D-97	TSS	4	I	mg/L	P298275	
	SM 4500 F-C-97	Fluoride	0.051	I	mg F/L	P297857	
1766218	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P298067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P297897	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.29		mg N/L	P297925	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P297907	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P297982	
1766220	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P297710	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: LAKE AMORET 70M OF CENTER

Collection Date/Time: 01/27/2016 13:00

Field ID: G4CE0073

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1766217	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P297715	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P298130	
		Sulfate	15		mg SO4/L	P298127	
	SM 2120 B	Color (true)	24		PCU	P297756	
	SM 2320 B-97	Total Alkalinity	18		mg CaCO3/L	P298140	
	SM 2540 C-97	TDS	57		mg/L	P298334	
	SM 2540 D-97	TSS	2	U	mg/L	P298275	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P297857	
1766219	EPA 350.1 Rev. 2.0	Ammonia-N	0.061		mg N/L	P298067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P297897	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P297925	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P297907	
	SM 5310 B-00	Organic Carbon	5.0		mg C/L	P297982	
1766221	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P297710	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P297715

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P298127

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P298130

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P298067

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P297897

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P297925

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P297907

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P297710

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

Reference Method: SM 2120 B
Batch ID: P297756

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P298140

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P298334

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P298275

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P297857

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P297982

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: P298127

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P298130

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P298067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P297897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	91.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P297925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P297925

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: P297907

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: P297710

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

Reference Method: SM 2320 B-97
Batch ID: P298140

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

Reference Method: SM 4500 F-C-97
Batch ID: P297857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.4		P	94 - 108

Reference Method: SM 5310 B-00
Batch ID: P297982

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	107		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P298127

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766216	Sulfate	101		P	90 - 110
1766217	Sulfate	99.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P298130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766216	Chloride	104		P	90 - 110
1766217	Chloride	104		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P298067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766197	Ammonia-N	95.0	93.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P297897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766138	Kjeldahl Nitrogen	91.8	96.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P297925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766197	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P297907

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766218	Total-P	100	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P297710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766220	O-Phosphate-P	101	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97
 Batch ID: P297857

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766217	Fluoride	102	102	P/P	94 - 107

Reference Method: SM 5310 B-00
 Batch ID: P297982

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1766139	Organic Carbon	96.6	98.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P297715

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766216	Turbidity	8.04	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P298127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766216	Sulfate	0.610	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P298130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766216	Chloride	0.411	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P298067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766197	Ammonia-N	0.678	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P297897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766138	Kjeldahl Nitrogen	4.62	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P297925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766197	NO2NO3-N	0.840	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P297907

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766218	Total-P	3.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P297710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766220	O-Phosphate-P	1.48	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P297756

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766216	Color (true)	0.680	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P298140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766855	Total Alkalinity	0.342	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P298334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766266	TDS	4.23	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P297857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766217	Fluoride	0.0	Spike	P	0 - 3.7

Reference Method: SM 5310 B-00
Batch ID: P297982

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1766139	Organic Carbon	1.96	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: A67321
Included Lab Sample IDs: 1766220, 1766221

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.1	P/P	90 - 110
O-Phosphate-P	99.1	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A67327
Included Lab Sample IDs: 1766216, 1766217

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

Reference Method: SM 2120 B
Run ID: A67341
Included Lab Sample IDs: 1766216, 1766217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	106	106	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A67375

Included Lab Sample IDs: 1766216, 1766217

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A67405

Included Lab Sample IDs: 1766218, 1766219

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

Reference Method: SM 5310 B-00

Run ID: A67418

Included Lab Sample IDs: 1766218, 1766219

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A67428

Included Lab Sample IDs: 1766218, 1766219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.7	94.0	P/P	90 - 110
Kjeldahl Nitrogen	98.7	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A67451

Included Lab Sample IDs: 1766218, 1766219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	98.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A67453

Included Lab Sample IDs: 1766218, 1766219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.4	97.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A67468

Included Lab Sample IDs: 1766216, 1766217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	103	P/P	90 - 110
Chloride	103	103	P/P	90 - 110
Sulfate	95.0	99.2	P/P	90 - 110
Sulfate	99.2	96.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A67470

Included Lab Sample IDs: 1766216, 1766217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	99.0	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				8.04	
EPA 300.0 Rev. 2.1	Chloride	106	104 104		0.411	
	Sulfate	101	101 99.4		0.610	
EPA 350.1 Rev. 2.0	Ammonia-N	94.5	95.0 93.9			0.678
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	91.5	91.8 96.1			4.62
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101 102			0.840
EPA 365.1 Rev. 2.0	Total-P	103	100 104			3.28
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	101 102			1.48
SM 2120 B	Color (true)				0.680	
SM 2320 B-97	Total Alkalinity	101			0.342	
SM 2540 C-97	TDS				4.23	
SM 4500 F-C-97	Fluoride	95.4	102 102			0.0
SM 5310 B-00	Organic Carbon	107	96.6 98.6			1.96

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1766216, 1766217
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1766216, 1766217
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1766216, 1766217
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1766218, 1766219
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1766218, 1766219
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1766218, 1766219
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1766218, 1766219
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1766220, 1766221
SM 2120 B / E31780	True Color measured at 450 nm	1766216, 1766217
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1766216, 1766217
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1766216, 1766217
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1766216, 1766217
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1766216, 1766217
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1766218, 1766219

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	01/28/2016			01/28/2016 13:46	Sima Feizi	1766216, 1766217
EPA 300.0 Rev. 2.1	01/28/2016			02/05/2016	Ping Hua	1766216, 1766217
EPA 350.1 Rev. 2.0	01/28/2016			02/04/2016	Diana M. Turner	1766218, 1766219
EPA 351.2 Rev. 2.0	01/28/2016	02/02/2016	Christopher Armour	02/03/2016	Bryan A. Werth	1766218, 1766219
EPA 353.2 Rev. 2.0	01/28/2016			02/02/2016	Peter D. Kaus	1766218, 1766219
EPA 365.1 Rev. 2.0	01/28/2016	02/02/2016	Christopher Armour	02/04/2016	Lipi Saha	1766218, 1766219
EPA 365.1 Rev. 2.0 dissolved	01/28/2016			01/28/2016 13:11	Julia Storbeck	1766220
	01/28/2016			01/28/2016 13:22	Julia Storbeck	1766221
SM 2120 B	01/28/2016			01/28/2016 14:38	Blanca Fach	1766216
	01/28/2016			01/28/2016 14:41	Blanca Fach	1766217
SM 2320 B-97	01/28/2016			02/02/2016	Dale L. Simmons	1766216, 1766217
SM 2540 C-97	01/28/2016			02/01/2016	Sima Feizi	1766216, 1766217
SM 2540 D-97	01/28/2016			02/01/2016	Sima Feizi	1766216, 1766217
SM 4500 F-C-97	01/28/2016			01/29/2016	Dale L. Simmons	1766216, 1766217
SM 5310 B-00	01/28/2016			02/03/2016	Sofia Elnemr	1766218, 1766219