Chemical Analysis Report

SO-DIST-2016-04-13-01

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

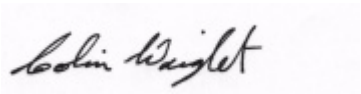
Event Description: **SCI Kit Bootheel Cr**
Request ID: **RQ-2016-04-11-54**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Corey Anderson

For additional information please contact
Timothy W. Fitzpatrick
Liang-Tsair Lin, Ph.D.
Colin Wright, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Environmental Administrator

Date Certified: 04-MAY-2016 15:33



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: BOOTHEEL CREEK @ END OF PRICE RD. **Collection Date/Time: 04/12/2016 09:40**

Field ID: G4SD041216-1 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1788888	EPA 180.1 Rev. 2.0	Turbidity	6.5		NTU	P302177	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P302546	
		Sulfate	3.2		mg SO4/L	P302549	
	SM 2120 B	Color (true)	410		PCU	P302146	
	SM 2320 B-97	Total Alkalinity	7.6		mg CaCO3/L	P302424	
	SM 2540 C-97	TDS	104		mg/L	P302840	
	SM 2540 D-97	TSS	7	I	mg/L	P302827	
	SM 4500 F-C-97	Fluoride	0.10		mg F/L	P302427	
1788890	EPA 350.1 Rev. 2.0	Ammonia-N	0.043		mg N/L	P303032	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P302937	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.026		mg N/L	P302542	
	EPA 365.1 Rev. 2.0	Total-P	0.41		mg P/L	P302686	
	SM 5310 B-00	Organic Carbon	31		mg C/L	P302726	
1788892	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.35		mg P/L	P302164	

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: LITTLE CHARLEY BOWLEGS CK, HHSP **Collection Date/Time: 04/12/2016 13:21**

Field ID: G3SD041216-2 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1788889	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P302177	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P302546	
		Sulfate	5.6		mg SO4/L	P302549	
	SM 2120 B	Color (true)	280	A	PCU	P302146	
	SM 2320 B-97	Total Alkalinity	13		mg CaCO3/L	P302424	
	SM 2540 C-97	TDS	124		mg/L	P302840	
	SM 2540 D-97	TSS	3	I	mg/L	P302827	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P302427	
1788891	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P302655	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P302938	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.033		mg N/L	P302542	
	EPA 365.1 Rev. 2.0	Total-P	0.68		mg P/L	P302686	
	SM 5310 B-00	Organic Carbon	30		mg C/L	P302726	
1788893	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.66		mg P/L	P302164	

Ref. Method and Comment:
SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P302177

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P302177

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302546

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302549

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302655

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303032

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302937

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302938

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302542

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302686

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302164

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

Reference Method: SM 2120 B
Batch ID: P302146

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P302424

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

Reference Method: SM 2540 C-97
Batch ID: P302840

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P302827

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P302427

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P302726

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: P302546

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302549

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302549

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302655

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303032

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302937

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302938

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302542

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: P302686

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: P302164

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

Reference Method: SM 2320 B-97
Batch ID: P302424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 105

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P302427

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P302726

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.5		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788900	Chloride	101		P	90 - 110
1788989	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788900	Sulfate	99.1		P	90 - 110
1788989	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788906	Ammonia-N	99.3	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788796	Ammonia-N	100	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788853	Kjeldahl Nitrogen	98.1	93.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788857	NO2NO3-N	99.0	97.5	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788837	Total-P	98.0	91.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789026	O-Phosphate-P	98.5	98.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P302427

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788668	Fluoride	97.6	97.6	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P302726

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1788847	Organic Carbon	98.1		P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P302177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788791	Turbidity	1.39	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302546

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788989	Chloride	0.352	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788989	Sulfate	0.692	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P302655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788906	Ammonia-N	1.01	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788796	Ammonia-N	0.433	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788853	Kjeldahl Nitrogen	4.76	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788904	Kjeldahl Nitrogen	0.314	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788857	NO2NO3-N	1.53	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788837	Total-P	3.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789026	O-Phosphate-P	0.304	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P302146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788889	Color (true)	4.36	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P302424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788668	Total Alkalinity	0.0639	Sample	P	0 - 4.8

Quality Assurance Report
Precision

Reference Method: SM 2540 C-97
Batch ID: P302840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788856	TDS	6.70	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P302427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788668	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P302726

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1788847	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: SM 2120 B
Run ID: A68846
Included Lab Sample IDs: 1788888, 1788889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	98.5	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A68851
Included Lab Sample IDs: 1788892, 1788893

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A68854
Included Lab Sample IDs: 1788888, 1788889

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

Reference Method: SM 2320 B-97
Run ID: A68927
Included Lab Sample IDs: 1788888, 1788889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.7	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500 F-C-97
Run ID: A68927
Included Lab Sample IDs: 1788888, 1788889

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A68939
Included Lab Sample IDs: 1788888, 1788889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Sulfate	99.5	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A68976
Included Lab Sample IDs: 1788890, 1788891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	94.0	95.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A69001
Included Lab Sample IDs: 1788891

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

Reference Method: SM 5310 B-00
Run ID: A69024
Included Lab Sample IDs: 1788890, 1788891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A69030
Included Lab Sample IDs: 1788890, 1788891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A69122
Included Lab Sample IDs: 1788890

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A69136
Included Lab Sample IDs: 1788890, 1788891

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A69136
Included Lab Sample IDs: 1788890, 1788891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	98.8	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					1.39	
EPA 300.0 Rev. 2.1	Chloride	101	101	101		0.352	
	Sulfate	99.5	100	99.1		0.692	
EPA 350.1 Rev. 2.0	Ammonia-N	104	99.3	100			1.01
	Ammonia-N	101	100	99.7			0.433
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	98.1	93.5			4.76
	Kjeldahl Nitrogen	93.9					0.314
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.0	97.5			1.53
EPA 365.1 Rev. 2.0	Total-P	103	98.0	91.9			3.52
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	98.5	98.8			0.304
SM 2120 B	Color (true)					4.36	
SM 2320 B-97	Total Alkalinity	103				0.0639	
SM 2540 C-97	TDS					6.70	
SM 4500 F-C-97	Fluoride	97.6	97.6	97.6			0.0
SM 5310 B-00	Organic Carbon	98.5	98.1				0.938

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1788888, 1788889
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1788888, 1788889
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1788888, 1788889
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1788890, 1788891
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1788890, 1788891
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1788890, 1788891
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1788890, 1788891
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1788892, 1788893
SM 2120 B / E31780	True Color measured at 450 nm	1788888, 1788889
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1788888, 1788889
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1788888, 1788889
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1788888, 1788889
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1788888, 1788889

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1788890, 1788891

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	04/13/2016			04/13/2016 13:03	Sima Feizi	1788888, 1788889
EPA 300.0 Rev. 2.1	04/13/2016			04/19/2016	Julia Storbeck	1788888, 1788889
EPA 350.1 Rev. 2.0	04/13/2016			04/20/2016	Diana M. Turner	1788891
	04/13/2016			04/26/2016	Diana M. Turner	1788890
EPA 351.2 Rev. 2.0	04/13/2016	04/26/2016	Sofia Elnemr	04/27/2016	Rochelle Y Jackson	1788890, 1788891
EPA 353.2 Rev. 2.0	04/13/2016			04/19/2016	Virginia P. Brown	1788890, 1788891
EPA 365.1 Rev. 2.0	04/13/2016	04/21/2016	Christopher Armour	04/21/2016	Lipi Saha	1788890, 1788891
EPA 365.1 Rev. 2.0 dissolved	04/13/2016			04/13/2016 13:25	Julia Storbeck	1788893
	04/13/2016			04/13/2016 13:26	Julia Storbeck	1788892
SM 2120 B	04/13/2016			04/13/2016 10:57	Rochelle Y Jackson	1788888, 1788889
SM 2320 B-97	04/13/2016			04/16/2016	Dale L. Simmons	1788888, 1788889
SM 2540 C-97	04/13/2016			04/15/2016	Yijie Li	1788888, 1788889
SM 2540 D-97	04/13/2016			04/15/2016	Yijie Li	1788888, 1788889
SM 4500 F-C-97	04/13/2016			04/16/2016	Dale L. Simmons	1788888, 1788889
SM 5310 B-00	04/13/2016			04/21/2016	Sofia Elnemr	1788890, 1788891