

Chemical Analysis Report

SO-DIST-2016-04-01-02

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

Event Description: **SMP: Highlands Lakes**

Request ID: **RQ-2016-03-07-49**

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
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 20-APR-2016 15:47



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 HENRY @ MIDDLE

Collection Date/Time: 03/31/2016 08:37

Field ID: G4HL032016-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785337	EPA 180.1 Rev. 2.0	Turbidity	1.8	A	NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P301645	
		Sulfate	20		mg SO4/L	P301647	
	SM 2120 B	Color (true)	20	A	PCU	P301418	
	SM 2320 B-97	Total Alkalinity	21		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	90		mg/L	P302075	
	SM 2540 D-97	TSS	3	I	mg/L	P302082	
	SM 4500 F-C-97	Fluoride	0.068	I	mg F/L	P301746	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P301772	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P302055	
1785347	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301612	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P301877	
	SM 5310 B-00	Organic Carbon	8.3		mg C/L	P301820	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P301411	
	dissolved						

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 152 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: LAKE HENRY @ SE CORNER

Collection Date/Time: 03/31/2016 08:48

Field ID: G4HL032016-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785338	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P301645	
		Sulfate	20		mg SO4/L	P301647	
	SM 2120 B	Color (true)	21		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	21		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	101		mg/L	P302077	
	SM 2540 D-97	TSS	4	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.068	I	mg F/L	P301746	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P301772	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P302055	
1785348	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301612	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P301877	
	SM 5310 B-00	Organic Carbon	8.2		mg C/L	P301820	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P301412	
	dissolved						

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 152 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: LAKE HENRY @ EASTSIDE

Collection Date/Time: 03/31/2016 08:57

Field ID: G4HL032016-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Field ID: G4HL032016-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785339	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P301645	
		Sulfate	20		mg SO4/L	P301647	
	SM 2120 B	Color (true)	21		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	21		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	99		mg/L	P302077	
	SM 2540 D-97	TSS	3	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.067	I	mg F/L	P301746	
1785349	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P301772	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P302055	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301612	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P301877	
	SM 5310 B-00	Organic Carbon	8.1		mg C/L	P301820	
1785359	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 152 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: LAKE HENRY @ SW SIDE

Collection Date/Time: 03/31/2016 08:24

Field ID: G4HL032016-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785340	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P301645	
		Sulfate	20		mg SO4/L	P301647	
	SM 2120 B	Color (true)	21		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	21		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	96		mg/L	P302077	
	SM 2540 D-97	TSS	2	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.067	I	mg F/L	P301746	
1785350	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P301773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P302056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301612	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P301877	
	SM 5310 B-00	Organic Carbon	8.2		mg C/L	P301820	
1785360	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 152 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: LAKE HENRY @ NORTHSIDE

Collection Date/Time: 03/31/2016 09:06

Field ID: G4HL032016-5

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785341	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P301431	

Field ID: G4HL032016-5

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785341	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P301645	
		Sulfate	20		mg SO4/L	P301647	
	SM 2120 B	Color (true)	20		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	21		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	106		mg/L	P302077	
	SM 2540 D-97	TSS	4	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.067	I	mg F/L	P301746	
1785351	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P301773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P302056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301613	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P301877	
	SM 5310 B-00	Organic Carbon	8.3		mg C/L	P301820	
1785361	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 152 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: PEARL LAKE @ NORTHSIDE

Collection Date/Time: 03/31/2016 10:38

Field ID: G4HL032016-6

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785342	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P301645	
		Sulfate	17		mg SO4/L	P301647	
	SM 2120 B	Color (true)	13		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	4.5		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	73		mg/L	P302077	
	SM 2540 D-97	TSS	3	I	mg/L	P302083	
1785352	SM 4500 F-C-97	Fluoride	0.045	I	mg F/L	P301746	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P301773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P302056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301613	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P301877	
1785362	SM 5310 B-00	Organic Carbon	6.1		mg C/L	P301820	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 111 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: PEARL LAKE @ EASTSIDE

Collection Date/Time: 03/31/2016 10:29

Field ID: G4HL032016-7

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785343	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P301645	

Field ID: G4HL032016-7

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785343	EPA 300.0 Rev. 2.1	Sulfate	17		mg SO4/L	P301647	
	SM 2120 B	Color (true)	12		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	4.4		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	77		mg/L	P302077	
	SM 2540 D-97	TSS	2	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.046	I	mg F/L	P301746	
1785353	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P301773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P302056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301613	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P301877	
	SM 5310 B-00	Organic Carbon	6.1		mg C/L	P301820	
1785363	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 111 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: PEARL LAKE @ SOUTHSIDE

Collection Date/Time: 03/31/2016 10:20

Field ID: G4HL032016-8

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785344	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P301645	
		Sulfate	17		mg SO4/L	P301647	
	SM 2120 B	Color (true)	13		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	4.5		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	75		mg/L	P302077	
1785354	SM 2540 D-97	TSS	3	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.046	I	mg F/L	P301746	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P301773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P302056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301613	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P301877	
1785364	SM 5310 B-00	Organic Carbon	6.3		mg C/L	P301821	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 111 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: PEARL LAKE @ WESTSIDE

Collection Date/Time: 03/31/2016 10:00

Field ID: G4HL032016-9

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785345	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P301431	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P301645	
		Sulfate	17		mg SO4/L	P301647	

Field ID: G4HL032016-9

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785345	SM 2120 B	Color (true)	12		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	4.6		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	72		mg/L	P302077	
	SM 2540 D-97	TSS	2	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.046	I	mg F/L	P301746	
1785355	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P301773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P302056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301613	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P301877	
	SM 5310 B-00	Organic Carbon	6.2		mg C/L	P301821	
1785365	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 111 umhos/cm.

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

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: PEARL LAKE @ CENTER

Collection Date/Time: 03/31/2016 10:10

Field ID: G4HL032016-10

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1785346	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P301432	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P301645	
		Sulfate	17		mg SO4/L	P301647	
	SM 2120 B	Color (true)	12		PCU	P301418	
	SM 2320 B-97	Total Alkalinity	4.5		mg CaCO3/L	P301744	
	SM 2540 C-97	TDS	74		mg/L	P302077	
	SM 2540 D-97	TSS	2	I	mg/L	P302083	
	SM 4500 F-C-97	Fluoride	0.046	I	mg F/L	P301746	
1785356	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P301773	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.44		mg N/L	P302056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301613	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P301878	
	SM 5310 B-00	Organic Carbon	6.1		mg C/L	P301821	
1785366	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301412	

Ref. Method and Comment:

SM 2540 C-97: The reported result is consistent with the laboratory conductivity, 111 umhos/cm.

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

SM 4500 F-C-97: 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: P301431

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301432

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301645

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301647

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301772

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301773

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302055

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302056

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301612

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301613

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301877

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301878

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301411

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301412

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

Reference Method: SM 2120 B
Batch ID: P301418

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P301744

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

Reference Method: SM 2540 C-97
Batch ID: P302075

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P302077

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P302082

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P302083

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P301746

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P301820

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-00
Batch ID: P301821

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: P301645

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301647

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301772

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: P301773

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: P302055

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302055

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302056

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301612

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301613

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301877

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301878

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301411

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301412

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

Reference Method: SM 2320 B-97
Batch ID: P301744

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: P301746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P301820

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P301821

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: P301645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785324	Chloride	99.6		P	90 - 110
1785325	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785324	Sulfate	97.9		P	90 - 110
1785325	Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785347	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301773

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785353	Ammonia-N	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785328	Kjeldahl Nitrogen	96.4	96.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785350	Kjeldahl Nitrogen	92.3	92.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785305	NO2NO3-N	96.0	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301613

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785351	NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785331	Total-P	100	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301878

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785356	Total-P	102	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301411

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785308	O-Phosphate-P	99.7	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785362	O-Phosphate-P	99.6	99.7	P/P	90 - 110

Reference Method: SM 5310 B-00
Batch ID: P301820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1784989	Organic Carbon	94.2	93.8	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P301821

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785354	Organic Carbon	91.7	91.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785337	Turbidity	5.10	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785382	Turbidity	0.639	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785324	Chloride	0.00105	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785324	Sulfate	0.122	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785347	Ammonia-N	0.586	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785353	Ammonia-N	0.892	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785328	Kjeldahl Nitrogen	0.333	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785350	Kjeldahl Nitrogen	0.321	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785305	NO2NO3-N	2.06	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785351	NO2NO3-N	1.50	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785331	Total-P	0.791	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785356	Total-P	1.88	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785308	O-Phosphate-P	0.998	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785362	O-Phosphate-P	0.100	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P301418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785337	Color (true)	0.353	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P301744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785896	Total Alkalinity	0.391	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P302075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785301	TDS	1.40	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P302077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785382	TDS	4.62	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P301746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785896	Fluoride	0.477	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P301820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1784989	Organic Carbon	0.279	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P301821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785354	Organic Carbon	0.0406	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: A68583

Included Lab Sample IDs: 1785357, 1785358, 1785359, 1785360, 1785361, 1785362, 1785363, 1785364, 1785365, 1785366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	99.4	P/P	90 - 110
O-Phosphate-P	99.4	98.9	P/P	90 - 110
O-Phosphate-P	99.4	99.4	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A68584

Included Lab Sample IDs: 1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A68584

Included Lab Sample IDs: 1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A68593

Included Lab Sample IDs: 1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A68637

Included Lab Sample IDs: 1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Chloride	102	102	P/P	90 - 110
Sulfate	101	99.9	P/P	90 - 110
Sulfate	99.9	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A68658

Included Lab Sample IDs: 1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.5	P/P	90 - 110
NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A68698

Included Lab Sample IDs: 1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346

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

Reference Method: SM 4500 F-C-97

Run ID: A68698

Included Lab Sample IDs: 1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A68711

Included Lab Sample IDs: 1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	105	105	P/P	90 - 110
Ammonia-N	105	105	P/P	90 - 110
Ammonia-N	105	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A68728

Included Lab Sample IDs: 1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.0	92.6	P/P	90 - 110
Organic Carbon	92.6	92.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A68796

Included Lab Sample IDs: 1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	98.0	P/P	90 - 110
Total-P	98.5	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A68850

Included Lab Sample IDs: 1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	103	P/P	90 - 110
Kjeldahl Nitrogen	102	101	P/P	90 - 110
Kjeldahl Nitrogen	105	102	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						5.10	
	Turbidity						0.639	
EPA 300.0 Rev. 2.1	Chloride	102		99.6	100		0.0010	
	Sulfate	100		97.9	98.4		0.122	
EPA 350.1 Rev. 2.0	Ammonia-N	104		102	103			0.586
	Ammonia-N	105		103	104			0.892
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.5		96.4	96.8			0.333
	Kjeldahl Nitrogen	97.6		92.3	92.8			0.321
EPA 353.2 Rev. 2.0	NO2NO3-N	100		96.0	98.0			2.06
	NO2NO3-N	100		99.0	100			1.50
EPA 365.1 Rev. 2.0	Total-P	99.0		100	99.4			0.791
	Total-P	98.0		102	99.6			1.88
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100		99.7	101			0.998
	O-Phosphate-P	104		99.6	99.7			0.100
SM 2120 B	Color (true)						0.353	
SM 2320 B-97	Total Alkalinity	103					0.391	
SM 2540 C-97	TDS						1.40	
	TDS						4.62	
SM 4500 F-C-97	Fluoride	97.4						0.477
SM 5310 B-00	Organic Carbon	94.6		94.2	93.8			0.279
	Organic Carbon	94.8		91.7	91.7			0.0406

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1785357, 1785358, 1785359, 1785360, 1785361, 1785362, 1785363, 1785364, 1785365, 1785366
SM 2120 B / E31780	True Color measured at 450 nm	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356

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	04/01/2016			04/01/2016 16:54	Sima Feizi	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
EPA 300.0 Rev. 2.1	04/01/2016			04/05/2016	Julia Storbeck	1785337, 1785338, 1785339
	04/01/2016			04/06/2016	Julia Storbeck	1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
EPA 350.1 Rev. 2.0	04/01/2016			04/06/2016	Diana M. Turner	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 351.2 Rev. 2.0	04/01/2016	04/12/2016	Sofia Elnemr	04/13/2016	Christopher Armour	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 353.2 Rev. 2.0	04/01/2016			04/05/2016	Peter D. Kaus	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 365.1 Rev. 2.0	04/01/2016	04/08/2016	Christopher Armour	04/11/2016	Lipi Saha	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353, 1785354, 1785355, 1785356
EPA 365.1 Rev. 2.0 dissolved	04/01/2016			04/01/2016 12:35	Julia Storbeck	1785362
	04/01/2016			04/01/2016 12:49	Julia Storbeck	1785357
	04/01/2016			04/01/2016 12:54	Julia Storbeck	1785358
	04/01/2016			04/01/2016 12:55	Julia Storbeck	1785359
	04/01/2016			04/01/2016 12:56	Julia Storbeck	1785360
	04/01/2016			04/01/2016 12:57	Julia Storbeck	1785361, 1785363
	04/01/2016			04/01/2016 12:58	Julia Storbeck	1785364
	04/01/2016			04/01/2016 12:59	Julia Storbeck	1785365
	04/01/2016			04/01/2016 13:00	Julia Storbeck	1785366
	04/01/2016			04/01/2016 15:06	Rochelle Y Jackson	1785337, 1785338
SM 2120 B	04/01/2016			04/01/2016 15:07	Rochelle Y Jackson	1785339
	04/01/2016			04/01/2016 15:08	Rochelle Y Jackson	1785340
	04/01/2016			04/01/2016 15:09	Rochelle Y Jackson	1785341, 1785342
	04/01/2016			04/01/2016 15:10	Rochelle Y Jackson	1785343
	04/01/2016			04/01/2016 15:11	Rochelle Y Jackson	1785344
	04/01/2016			04/01/2016 15:12	Rochelle Y Jackson	1785345
	04/01/2016			04/01/2016 15:13	Rochelle Y Jackson	1785346
	04/01/2016			04/07/2016	Dale L. Simmons	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 2320 B-97						
SM 2540 C-97	04/01/2016			04/05/2016	Yijie Li	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 D-97	04/01/2016			04/05/2016	Yijie Li	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 4500 F-C-97	04/01/2016			04/07/2016	Dale L. Simmons	1785337, 1785338, 1785339, 1785340, 1785341, 1785342, 1785343, 1785344, 1785345, 1785346
SM 5310 B-00	04/01/2016			04/06/2016	Sofia Elnemr	1785347, 1785348, 1785349, 1785350, 1785351, 1785352, 1785353
	04/01/2016			04/07/2016	Sofia Elnemr	1785354, 1785355, 1785356