

Chemical Analysis Report

SE-DIST-2017-01-26-01

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

Event Description: **SMP-Group 5 South Run (1/5)**

Request ID: **RQ-2017-01-16-36**

Customer: **SE-DIST**

Project ID: **SMP**

Send Reports to:

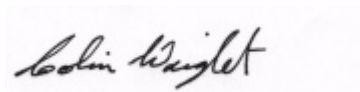
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

For additional information please contact

Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 20-FEB-2017 12:00



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 groups are included in this report: Nutrients and Pesticides.

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: M-Canal

Collection Date/Time: 01/25/2017 10:45

Field ID: 28011007

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866819	EPA 180.1 Rev. 2.0	Turbidity	9.8		NTU	P318845	
	EPA 300.0 Rev. 2.1	Chloride	150		mg Cl/L	P319155	
		Sulfate	91		mg SO4/L	P319157	
	SM 2120 B	Color (true)	35		PCU	P318813	
	SM 2320 B-97	Total Alkalinity	158		mg CaCO3/L	P318980	
	SM 2540 C-97	TDS	576	A	mg/L	P319523	
	SM 2540 D-97	TSS	9	I	mg/L	P319304	
	SM 4500 F-C-97	Fluoride	0.20		mg F/L	P318985	
1866826	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P319038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P318914	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P319079	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P318953	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P318898	
1866833	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P318805	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Ocean Canal

Collection Date/Time: 01/25/2017 11:05

Field ID: G5SE0049

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866820	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P318845	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P319155	
		Sulfate	71		mg SO4/L	P319157	
	SM 2120 B	Color (true)	48		PCU	P318813	
	SM 2320 B-97	Total Alkalinity	144		mg CaCO3/L	P318980	
	SM 2540 C-97	TDS	458		mg/L	P319523	
	SM 2540 D-97	TSS	14		mg/L	P319304	
	SM 4500 F-C-97	Fluoride	0.20		mg F/L	P318985	
1866827	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P319007	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P318917	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.30		mg N/L	P319172	
	EPA 365.1 Rev. 2.0	Total-P	0.059		mg P/L	P318953	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P318898	
1866834	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P318806	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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: WPB Canal

Collection Date/Time: 01/25/2017 11:30

Field ID: G5SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866821	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P318845	

Field ID: G5SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866821	EPA 300.0 Rev. 2.1	Chloride	82		mg Cl/L	P319155	
		Sulfate	45		mg SO4/L	P319157	
	SM 2120 B	Color (true)	44		PCU	P318816	
	SM 2320 B-97	Total Alkalinity	119		mg CaCO3/L	P318980	
	SM 2540 C-97	TDS	353		mg/L	P319523	
	SM 2540 D-97	TSS	9	I	mg/L	P319304	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P318985	
1866828	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P319038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P318917	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.40		mg N/L	P319079	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P318953	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P318898	
1866835	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.032		mg P/L	P318806	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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: WPB Canal

Collection Date/Time: 01/25/2017 11:30

Field ID: G5SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866854	EPA 8321B	Sucralose**	0.10		ug/L	P318567	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P318793	
		Fenuron	0.0080	U	ug/L	P318793	
		Imidacloprid	0.0040	U	ug/L	P318793	
		Linuron	0.0040	U	ug/L	P318793	
		Acetaminophen**	0.0040	U	ug/L	P318793	
		Carbamazepine**	4.0E-04	U	ug/L	P318793	
		Primidone**	0.0080	U	ug/L	P318793	
		Fluridone**	0.0039		ug/L	P318793	

Sample Location: L-8 Canal

Collection Date/Time: 01/25/2017 12:05

Field ID: G3SE0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866822	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P318845	
	EPA 300.0 Rev. 2.1	Chloride	130		mg Cl/L	P319155	
		Sulfate	77		mg SO4/L	P319157	
		Color (true)	44		PCU	P318813	
	SM 2320 B-97	Total Alkalinity	147		mg CaCO3/L	P318980	
	SM 2540 C-97	TDS	472		mg/L	P319523	
	SM 2540 D-97	TSS	11		mg/L	P319304	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P318985	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P319038	
		Kjeldahl Nitrogen	1.1		mg N/L	P318917	

Field ID: G3SE0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866829	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P319079	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P318953	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P318898	
1866836	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P318806	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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: C-6 Canal

Collection Date/Time: 01/25/2017 13:30

Field ID: 28010980

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866823	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P318845	
	EPA 300.0 Rev. 2.1	Chloride	54		mg Cl/L	P319155	
		Sulfate	28		mg SO4/L	P319157	
		Color (true)	59		PCU	P318813	
	SM 2320 B-97	Total Alkalinity	147		mg CaCO3/L	P318980	
	SM 2540 C-97	TDS	303		mg/L	P319523	
	SM 2540 D-97	TSS	13		mg/L	P319304	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P318985	
1866830	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P319007	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P318917	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.46		mg N/L	P319172	
	EPA 365.1 Rev. 2.0	Total-P	0.096		mg P/L	P318956	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P318898	
1866837	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.052		mg P/L	P318806	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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: 715 Farms

Collection Date/Time: 01/25/2017 14:15

Field ID: 28010984

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866824	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P318845	
	EPA 300.0 Rev. 2.1	Chloride	440		mg Cl/L	P319155	
		Sulfate	240		mg SO4/L	P319157	
		Color (true)	100	A	PCU	P318813	
	SM 2320 B-97	Total Alkalinity	390		mg CaCO3/L	P318980	
	SM 2540 C-97	TDS	1.93E+03		mg/L	P319524	
	SM 2540 D-97	TSS	5	I	mg/L	P319305	
	SM 4500 F-C-97	Fluoride	0.67		mg F/L	P318985	
1866831	EPA 350.1 Rev. 2.0	Ammonia-N	1.5		mg N/L	P319039	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.9		mg N/L	P318917	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.086		mg N/L	P319079	

Field ID: 28010984

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866831	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P318956	
	SM 5310 B-00	Organic Carbon	24		mg C/L	P318898	
1866838	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P318806	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high 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: East Beach

Collection Date/Time: 01/25/2017 14:40

Field ID: G5SE0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1866825	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P318845	
	EPA 300.0 Rev. 2.1	Chloride	58		mg Cl/L	P319155	
		Sulfate	29		mg SO4/L	P319157	
	SM 2120 B	Color (true)	55	A	PCU	P318816	
	SM 2320 B-97	Total Alkalinity	119		mg CaCO3/L	P318980	
	SM 2540 C-97	TDS	333		mg/L	P319524	
	SM 2540 D-97	TSS	7	I	mg/L	P319305	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P318985	
1866832	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P319039	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P318917	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.42		mg N/L	P319079	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P318956	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P318898	
1866839	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.076		mg P/L	P318806	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high 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

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P318845

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P319155

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319157

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319007

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319038

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319039

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P318914

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P318917

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319079

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319172

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318953

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
Batch ID: P318956

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318805

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318806

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

Reference Method: EPA 8321B
Batch ID: P318567

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P318813

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P318816

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P318980

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

Reference Method: SM 2540 C-97
Batch ID: P319523

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P319524

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P319304

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P319305

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P318985

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P318898

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

Reference Method: USGS O-2060-01
Batch ID: P318793

Component	Result	Code	Units
Acetaminophen	0.0040	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0040	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
Primidone	0.0080	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319155

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319157

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.3		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319007

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319038

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: P319039

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P318914

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P318917

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: P319079

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319172

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: P318953

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.0		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.8		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P318567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	92.6		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P318980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P318985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P318898

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P318793

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	78.8		P	40 - 140
Carbamazepine	94.8		P	40 - 140
Diuron	88.4		P	40 - 140
Fenuron	92.4		P	40 - 140
Fluridone	70.0		P	40 - 140
Imidacloprid	94.0		P	40 - 160
Linuron	74.4		P	40 - 140
Primidone	70.8		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866900	Chloride	102		P	90 - 110
1867038	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319157

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866900	Sulfate	99.5		P	90 - 110
1867038	Sulfate	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866799	Ammonia-N	105	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1867419	Ammonia-N	104	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P318914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866799	Kjeldahl Nitrogen	95.0	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866800	NO2NO3-N	102	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866827	NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866826	Total-P	99.5	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866901	Total-P	103	96.6	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P318805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866782	O-Phosphate-P	97.2	97.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P318806

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866834	O-Phosphate-P	97.8	97.4	P/P	90 - 110

Reference Method: EPA 8321B
 Batch ID: P318567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1865382	Sucralose	136	132	P/P	40 - 140

Reference Method: SM 4500 F-C-97
 Batch ID: P318985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866900	Fluoride	97.4	96.3	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P318898

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866773	Organic Carbon	96.6	98.0	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P318793

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1866907	Acetaminophen	72.4	74.4	P/P	40 - 140
1866907	Carbamazepine	99.3	103	P/P	40 - 140
1866907	Diuron	70.8	72.4	P/P	40 - 140
1866907	Fenuron	83.6	86.4	P/P	40 - 140
1866907	Fluridone	50.8	54.8	P/P	40 - 140
1866907	Imidacloprid	130	113	P/P	40 - 160
1866907	Linuron	80.4	73.6	P/P	40 - 140
1866907	Primidone	100	94.0	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P318845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866816	Turbidity	2.74	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P319155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867038	Chloride	0.309	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866799	Ammonia-N	1.13	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1867419	Ammonia-N	0.538	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P319039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866832	Ammonia-N	0.539	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P318914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866799	Kjeldahl Nitrogen	1.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P318917

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866831	Kjeldahl Nitrogen	13.2	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866800	NO2NO3-N	2.27	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P319172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866827	NO2NO3-N	0.783	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866826	Total-P	1.26	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P318956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866901	Total-P	5.75	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866782	O-Phosphate-P	0.0981	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P318806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866834	O-Phosphate-P	0.381	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P318567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1865382	Sucralose	2.74	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P318813

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866824	Color (true)	0.105	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P318816

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866825	Color (true)	11.7	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P318980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866900	Total Alkalinity	0.732	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P319523

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866819	TDS	0.521	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P319524

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866900	TDS	1.68	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P318985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866900	Fluoride	0.996	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P318898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866773	Organic Carbon	1.21	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P318793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1866907	Acetaminophen	2.72	Spike	P	0 - 30
1866907	Carbamazepine	3.86	Spike	P	0 - 30
1866907	Diuron	1.79	Spike	P	0 - 30
1866907	Fenuron	3.29	Spike	P	0 - 30
1866907	Fluridone	7.30	Spike	P	0 - 30
1866907	Imidacloprid	12.9	Spike	P	0 - 30
1866907	Linuron	8.83	Spike	P	0 - 30
1866907	Primidone	6.58	Spike	P	0 - 30

* 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 Surrogates

Lab Sample ID: 1866854
Field Sample ID: G5SE0058

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	125	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	66.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	86.6	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1866854
Field Sample ID: G5SE0058

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Diuron-d6	75.8	P	40 - 150
USGS O-2060-01	Primidone-d5	111	P	40 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A74129
Included Lab Sample IDs: 1866854

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	106	143	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A74133
Included Lab Sample IDs: 1866833, 1866834, 1866835, 1866836, 1866837, 1866838, 1866839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	99.4	P/P	90 - 110
O-Phosphate-P	98.8	98.6	P/P	90 - 110
O-Phosphate-P	99.6	99.7	P/P	90 - 110
O-Phosphate-P	99.7	98.5	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A74134
Included Lab Sample IDs: 1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	85 - 115
Color (true)	102	103	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A74142
Included Lab Sample IDs: 1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825

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

Reference Method: SM 5310 B-00
Run ID: A74153
Included Lab Sample IDs: 1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832

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

Reference Method: SM 2320 B-97
Run ID: A74180
Included Lab Sample IDs: 1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825

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

Reference Method: SM 2320 B-97

Run ID: A74180

Included Lab Sample IDs: 1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825

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

Reference Method: SM 4500 F-C-97

Run ID: A74180

Included Lab Sample IDs: 1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	101	P/P	90 - 110
Fluoride	99.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74185

Included Lab Sample IDs: 1866826, 1866828, 1866829, 1866830, 1866832

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74187

Included Lab Sample IDs: 1866826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.6	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74188

Included Lab Sample IDs: 1866827, 1866831

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74193

Included Lab Sample IDs: 1866827, 1866830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.3	P/P	90 - 110
Ammonia-N	99.3	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74196

Included Lab Sample IDs: 1866827, 1866828, 1866829, 1866830, 1866831, 1866832

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	102	P/P	90 - 110
Kjeldahl Nitrogen	102	98.4	P/P	90 - 110
Kjeldahl Nitrogen	104	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74202

Included Lab Sample IDs: 1866826, 1866828, 1866829, 1866831, 1866832

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	97.4	P/P	90 - 110
Ammonia-N	97.4	101	P/P	90 - 110
Ammonia-N	98.4	99.6	P/P	90 - 110
Ammonia-N	99.6	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74206

Included Lab Sample IDs: 1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	101	101	P/P	90 - 110
Sulfate	92.4	97.3	P/P	90 - 110
Sulfate	96.9	92.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74209

Included Lab Sample IDs: 1866826, 1866828, 1866829, 1866831, 1866832

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74235

Included Lab Sample IDs: 1866827, 1866830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	102	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A74237

Included Lab Sample IDs: 1866854

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	101	112	P/P	60 - 150
Carbamazepine	120	115	P/P	60 - 150
Diuron	118	118	P/P	60 - 150
Fenuron	118	112	P/P	60 - 150
Fluridone	95.6	107	P/P	60 - 150
Imidacloprid	102	84.4	P/P	60 - 150
Linuron	102	111	P/P	60 - 150
Primidone	119	121	P/P	60 - 150

* 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	MS
EPA 180.1 Rev. 2.0	Turbidity				2.74	
EPA 300.0 Rev. 2.1	Chloride	101	102	102	0.309	
	Sulfate	96.3	96.7	99.5		
EPA 350.1 Rev. 2.0	Ammonia-N	106	105	102		1.13
	Ammonia-N	104	104	104		0.538
	Ammonia-N	102				0.539
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	95.0	97.2		1.15
	Kjeldahl Nitrogen	102				13.2
EPA 353.2 Rev. 2.0	NO2NO3-N	104	102	105		2.27
	NO2NO3-N	104	104			0.783
EPA 365.1 Rev. 2.0	Total-P	100	99.5	101		1.26
	Total-P	97.0	103	96.6		5.75
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.9	97.2	97.3		0.0981
	O-Phosphate-P	99.8	97.8	97.4		0.381
EPA 8321B	Sucralose	92.6	136	132		2.74
SM 2120 B	Color (true)				0.105	
	Color (true)				11.7	
SM 2320 B-97	Total Alkalinity	103			0.732	
SM 2540 C-97	TDS				0.521	
	TDS				1.68	
SM 4500 F-C-97	Fluoride	99.0	97.4	96.3		0.996
SM 5310 B-00	Organic Carbon	98.4	96.6	98.0		1.21
USGS O-2060-01	Acetaminophen	78.8	72.4	74.4		2.72
	Carbamazepine	94.8	99.3	103		3.86
	Diuron	88.4	70.8	72.4		1.79
	Fenuron	92.4	83.6	86.4		3.29
	Fluridone	70.0	50.8	54.8		7.30
	Imidacloprid	94.0	130	113		12.9
	Linuron	74.4	80.4	73.6		8.83
	Primidone	70.8	100	94.0		6.58

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1866833, 1866834, 1866835, 1866836, 1866837, 1866838, 1866839
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1866854
SM 2120 B / E31780	True Color measured at 450 nm	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1866854

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	01/26/2017			01/26/2017 15:52	Sima Feizi	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
EPA 300.0 Rev. 2.1	01/26/2017			02/01/2017	Ping Hua	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
EPA 350.1 Rev. 2.0	01/26/2017			01/30/2017	Sofia Elnemr	1866827, 1866830
	01/26/2017			01/31/2017	Sofia Elnemr	1866826, 1866828, 1866829, 1866831, 1866832
EPA 351.2 Rev. 2.0	01/26/2017	01/30/2017	Adrian Shelby	01/31/2017	Joseph Suarez	1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832
EPA 353.2 Rev. 2.0	01/26/2017			02/01/2017	Beverly Y. Sanders	1866826, 1866828, 1866829, 1866831, 1866832
	01/26/2017			02/02/2017	Beverly Y. Sanders	1866827, 1866830
EPA 365.1 Rev. 2.0	01/26/2017	01/30/2017	Vijayalakshmi Reddy	01/31/2017	Lipi Saha	1866826, 1866827, 1866828, 1866829, 1866830, 1866831, 1866832
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	01/26/2017			01/26/2017 16:03	Julie Michelle Frank	1866836
	01/26/2017			01/26/2017 16:04	Julie Michelle Frank	1866838
	01/26/2017			01/26/2017 16:29	Julie Michelle Frank	1866839
EPA 8321B	01/26/2017	01/26/2017	Mohammad Ghaffari	01/26/2017	Mohammad Ghaffari	1866854
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	01/26/2017			01/26/2017 17:38	Jared I. Manley	1866819
	01/26/2017			01/26/2017 17:39	Jared I. Manley	1866820
	01/26/2017			01/26/2017 17:40	Jared I. Manley	1866822
	01/26/2017			01/26/2017 17:41	Jared I. Manley	1866823
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SM 2540 D-97	01/26/2017			01/30/2017	Sima Feizi	1866819, 1866820, 1866821, 1866822, 1866823, 1866824, 1866825
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