

Chemical Analysis Report

NE-DIST-2017-02-15-01

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

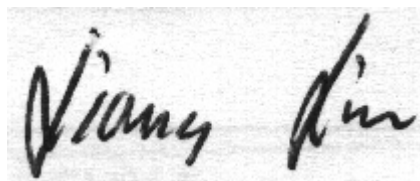
Event Description: **Suwannee 2**
Request ID: **RQ-2017-02-13-08**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Jacksonville, FL 32256-7577
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 08-MAR-2017 13:41

A handwritten signature in black ink, appearing to read "Liang Lin", is written on a light-colored, textured background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical 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: OLUSTEE CREEK @ CR 238

Collection Date/Time: 02/14/2017 11:05

Field ID: G1NE0332 02142017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1872999	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P319922	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P320752	
		Sulfate	0.83		mg SO4/L	P320750	
	SM 2120 B	Color (true)	440		PCU	P319926	
	SM 2320 B-97	Total Alkalinity	6.7		mg CaCO3/L	P320219	
	SM 2540 C-97	TDS	112		mg/L	P320457	
	SM 2540 D-97	TSS	2	I	mg/L	P320387	
	SM 4500 F-C-97	Fluoride	0.094	I	mg F/L	P320420	
1873002	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P320244	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P320169	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P320461	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P320069	
	SM 5310 B-00	Organic Carbon	42		mg C/L	P320006	
1873005	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P319913	
1873037	EPA 8321B	Sucralose**	0.010	U	ug/L	P319885	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P319799	
		Fenuron	0.0080	U	ug/L	P319799	
		Imidacloprid	0.0040	U	ug/L	P319799	
		Linuron	0.0040	U	ug/L	P319799	RPD
		Acetaminophen**	0.0040	U	ug/L	P319799	
		Carbamazepine**	4.0E-04	U	ug/L	P319799	
		Primidone**	0.0080	U	ug/L	P319799	
		Fluridone**	4.0E-04	U	ug/L	P319799	

Ref. Method and Comment:

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.

USGS O-2060-01: MS accuracy and precision for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: MILL CREEK @ BELLAMY/ALLIGATOR RD.

Collection Date/Time: 02/14/2017 12:20

Field ID: G5NE0605 02142017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873000	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P319922	
	EPA 300.0 Rev. 2.1	Chloride	12	A	mg Cl/L	P320752	
		Sulfate	4.4	A	mg SO4/L	P320750	
	SM 2120 B	Color (true)	44	A	PCU	P319926	
	SM 2320 B-97	Total Alkalinity	37		mg CaCO3/L	P320219	
	SM 2540 C-97	TDS	82		mg/L	P320457	
	SM 2540 D-97	TSS	3	I	mg/L	P320387	
	SM 4500 F-C-97	Fluoride	0.36		mg F/L	P320420	
1873003	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P320244	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.36		mg N/L	P320037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.024		mg N/L	P320461	
	EPA 365.1 Rev. 2.0	Total-P	1.2		mg P/L	P320069	
	SM 5310 B-00	Organic Carbon	5.5		mg C/L	P320006	

Field ID: G5NE0605 02142017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873006	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.99		mg P/L	P319913	
1873038	EPA 8321B	Sucralose**	0.010	U	ug/L	P319885	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P319799	
		Fenuron	0.0080	U	ug/L	P319799	
		Imidacloprid	0.0040	U	ug/L	P319799	
		Linuron	0.0040	U	ug/L	P319799	RPD
		Acetaminophen**	0.0040	U	ug/L	P319799	
		Carbamazepine**	4.0E-04	U	ug/L	P319799	
		Primidone**	0.0080	U	ug/L	P319799	
		Fluridone**	4.0E-04	U	ug/L	P319799	

Ref. Method and Comment:

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.

USGS O-2060-01: MS accuracy and precision for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: BLANK

Collection Date/Time: 02/14/2017 12:30

Field ID: BLANK 02142017

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873008	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P319922	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P320752	
		Sulfate	0.20	U	mg SO4/L	P320750	
	SM 2120 B	Color (true)	2.5	U	PCU	P319926	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P320219	
	SM 2540 D-97	TSS	2	U	mg/L	P320389	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P320420	
1873009	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P320245	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P320037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P320461	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P320069	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P320006	
1873010	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P319913	
1873044	EPA 8321B	Sucralose**	0.010	U	ug/L	P319885	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P319949	MS
		Fenuron	0.0080	U	ug/L	P319949	
		Imidacloprid	0.0040	U	ug/L	P319949	
		Linuron	0.0040	U	ug/L	P319949	MS
		Acetaminophen**	0.0040	U	ug/L	P319949	
		Carbamazepine**	4.0E-04	U	ug/L	P319949	
		Primidone**	0.0080	U	ug/L	P319949	
		Fluridone**	4.0E-04	U	ug/L	P319949	MS

Ref. Method and Comment:

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The result was confirmed on 02/15/2017.

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.

Sample Location: PARENERS BRANCH @ CR 1491

Collection Date/Time: 02/14/2017 11:45

Field ID: G1NE0600 02142017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873040	EPA 8321B	Sucralose**	0.013	I	ug/L	P319885	
1873042	USGS O-2060-01	Diuron	0.023		ug/L	P319799	
		Fenuron	0.023	I	ug/L	P319799	
		Imidacloprid	0.0040	U	ug/L	P319799	
		Linuron	0.0040	U	ug/L	P319799	RPD
		Acetaminophen**	0.0040	U	ug/L	P319799	
		Carbamazepine**	4.0E-04	U	ug/L	P319799	
		Primidone**	0.0080	U	ug/L	P319799	
		Fluridone**	4.0E-04	U	ug/L	P319799	

Ref. Method and Comment:

EPA 8321B: Results confirmed in re-extraction.

USGS O-2060-01: MS accuracy and precision for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: NEW RIVER @ SR 100

Collection Date/Time: 02/14/2017 09:30

Field ID: G1NE0534 02142017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873041	EPA 8321B	Sucralose**	0.22		ug/L	P319885	
1873043	USGS O-2060-01	Diuron	0.0040	UJ	ug/L	P319949	MS
		Fenuron	0.0080	U	ug/L	P319949	
		Imidacloprid	0.0040	U	ug/L	P319949	
		Linuron	0.0040	UJ	ug/L	P319949	MS
		Acetaminophen**	0.0040	U	ug/L	P319949	
		Carbamazepine**	0.018		ug/L	P319949	
		Primidone**	0.0080	U	ug/L	P319949	
		Fluridone**	4.0E-04	UJ	ug/L	P319949	MS

Ref. Method and Comment:

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.

Sample Location: CANNON CRK @ CANNON CRK RD W CR 47

Collection Date/Time: 02/14/2017 10:35

Field ID: G1NE0617 02142017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873001	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P319922	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P320752	
		Sulfate	2.8		mg SO4/L	P320750	
	SM 2120 B	Color (true)	100		PCU	P319926	
	SM 2320 B-97	Total Alkalinity	60	A	mg CaCO3/L	P320219	
	SM 2540 C-97	TDS	107		mg/L	P320457	
	SM 2540 D-97	TSS	8	I	mg/L	P320387	
	SM 4500 F-C-97	Fluoride	0.066	I	mg F/L	P320420	
1873004	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P320244	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P320037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P320461	
	EPA 365.1 Rev. 2.0	Total-P	0.053		mg P/L	P320069	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P320006	
1873007	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P319913	

Field ID: G1NE0617 02142017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873039	EPA 8321B	Sucralose**	0.11		ug/L	P319885	
	USGS O-2060-01	Diuron	0.0080	U	ug/L	P319799	
		Fenuron	0.016	U	ug/L	P319799	
		Imidacloprid	0.0080	U	ug/L	P319799	
		Linuron	0.0080	U	ug/L	P319799	RPD
		Acetaminophen**	0.0040	U	ug/L	P319799	
		Carbamazepine**	4.0E-04	U	ug/L	P319799	
		Primidone**	0.0080	U	ug/L	P319799	
		Fluridone**	0.0014	I	ug/L	P319799	

Ref. Method and Comment:

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.

USGS O-2060-01: MDL's for some parameters elevated due to matrix interference. MS accuracy and precision for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P319922

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P320750

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P320752

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P320244

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P320245

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P320037

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320169

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320461

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320069

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P319913

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

Reference Method: EPA 8321B
Batch ID: P319885

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P319926

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P320219

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

Reference Method: SM 2540 C-97
Batch ID: P320457

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P320387

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P320389

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P320420

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P320006

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

Reference Method: USGS O-2060-01
Batch ID: P319799

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

Reference Method: USGS O-2060-01
Batch ID: P319949

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: P320750

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320752

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	107		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320244

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320245

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320037

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320169

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320461

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320069

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P319913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.3		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P319885

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	83.2		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
 Batch ID: P320219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
 Batch ID: P320420

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.6		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P320006

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P319799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	86.8		P	40 - 140
Carbamazepine	111		P	40 - 140
Diuron	70.8		P	40 - 140
Fenuron	82.4		P	40 - 140
Fluridone	67.6		P	40 - 140
Imidacloprid	82.0		P	40 - 160
Linuron	98.4		P	40 - 140
Primidone	82.8		P	40 - 140

Reference Method: USGS O-2060-01
 Batch ID: P319949

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	73.2		P	40 - 140
Carbamazepine	125		P	40 - 140
Diuron	78.8		P	40 - 140
Fenuron	98.8		P	40 - 140
Fluridone	53.2		P	40 - 140
Imidacloprid	85.2		P	40 - 160
Linuron	65.6		P	40 - 140
Primidone	89.2		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P320750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873000	Sulfate	101		P	90 - 110
1873390	Sulfate	96.8		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320752

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873000	Chloride	105		P	90 - 110
1873390	Chloride	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320245

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873091	Ammonia-N	99.1	95.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873290	Kjeldahl Nitrogen	98.2	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1872947	Kjeldahl Nitrogen	103	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873004	NO2NO3-N	107	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1872972	Total-P	92.6	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P319913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873007	O-Phosphate-P	98.6	97.9	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P319885

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1872975	Sucralose	92.7	119	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P320420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873001	Fluoride	95.8	96.9	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P320006

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1872606	Organic Carbon	94.0	95.8	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P319799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1872782	Acetaminophen	68.8	64.4	P/P	40 - 140
1872782	Carbamazepine	68.4	82.0	P/P	40 - 140
1872782	Diuron	55.2	63.6	P/P	40 - 140
1872782	Fenuron	68.0	70.8	P/P	40 - 140
1872782	Fluridone	64.0	68.4	P/P	40 - 140
1872782	Linuron	49.2	72.0	P/P	40 - 140
1872782	Primidone	86.4	94.4	P/P	40 - 140

Reference Method: USGS O-2060-01
 Batch ID: P319949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873043	Acetaminophen	71.2	64.8	P/P	40 - 140
1873043	Carbamazepine	63.5	50.3	P/P	40 - 140
1873043	Diuron	34.8	34.4	F/F	40 - 140
1873043	Fenuron	45.6	47.6	P/P	40 - 140
1873043	Fluridone	27.6	30.3	F/F	40 - 140
1873043	Imidacloprid	94.0	89.2	P/P	40 - 160
1873043	Linuron	36.1	29.1	F/F	40 - 140
1873043	Primidone	53.6	53.6	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P319922

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873057	Turbidity	0.810	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P320750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873000	Sulfate	0.000225	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P320752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873000	Chloride	0.0891	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872933	Ammonia-N	1.81	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873091	Ammonia-N	2.73	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873290	Kjeldahl Nitrogen	0.634	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872947	Kjeldahl Nitrogen	0.438	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873004	NO2NO3-N	1.89	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872972	Total-P	2.31	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P319913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873007	O-Phosphate-P	0.587	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P319885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872975	Sucralose	19.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P319926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873000	Color (true)	1.34	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P320219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873001	Total Alkalinity	0.0674	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
 Batch ID: P320457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872818	TDS	1.77	Sample	P	0 - 10

Reference Method: SM 2540 D-97
 Batch ID: P320389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873057	TSS	5.63	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P320420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873001	Fluoride	0.996	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P320006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872606	Organic Carbon	1.95	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P319799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1872782	Acetaminophen	6.61	Spike	P	0 - 30
1872782	Carbamazepine	18.1	Spike	P	0 - 30
1872782	Diuron	12.3	Spike	P	0 - 30
1872782	Fenuron	4.03	Spike	P	0 - 30
1872782	Fluridone	6.65	Spike	P	0 - 30
1872782	Linuron	37.6	Spike	F	0 - 30
1872782	Primidone	8.85	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P319949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873043	Acetaminophen	9.41	Spike	P	0 - 30
1873043	Carbamazepine	17.5	Spike	P	0 - 30
1873043	Diuron	1.04	Spike	P	0 - 30
1873043	Fenuron	4.29	Spike	P	0 - 30
1873043	Fluridone	9.54	Spike	P	0 - 30
1873043	Imidacloprid	5.24	Spike	P	0 - 30
1873043	Linuron	21.6	Spike	P	0 - 30
1873043	Primidone	0.0	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: 1873037
Field Sample ID: G1NE0332 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	79.5	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	62.6	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	42.2	P	40 - 160
USGS O-2060-01	Diuron-d6	40.2	P	40 - 150
USGS O-2060-01	Primidone-d5	40.4	P	40 - 150

Lab Sample ID: 1873038
Field Sample ID: G5NE0605 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	76.5	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	74.6	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	72.4	P	40 - 160
USGS O-2060-01	Diuron-d6	65.2	P	40 - 150
USGS O-2060-01	Primidone-d5	77.6	P	40 - 150

Lab Sample ID: 1873039
Field Sample ID: G1NE0617 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	82.5	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	63.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	56.4	P	40 - 160
USGS O-2060-01	Diuron-d6	54.0	P	40 - 150
USGS O-2060-01	Primidone-d5	54.4	P	40 - 150

Lab Sample ID: 1873040
Field Sample ID: G1NE0600 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	80.5	P	40 - 150

Quality Assurance Report Surrogates

Lab Sample ID: 1873041
Field Sample ID: G1NE0534 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	123	P	40 - 150

Lab Sample ID: 1873042
Field Sample ID: G1NE0600 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Acetaminophen-d4	63.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	65.8	P	40 - 160
USGS O-2060-01	Diuron-d6	71.0	P	40 - 150
USGS O-2060-01	Primidone-d5	75.4	P	40 - 150

Lab Sample ID: 1873043
Field Sample ID: G1NE0534 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Acetaminophen-d4	64.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	46.4	P	40 - 160
USGS O-2060-01	Diuron-d6	41.0	P	40 - 150
USGS O-2060-01	Primidone-d5	47.4	P	40 - 150

Lab Sample ID: 1873044
Field Sample ID: BLANK 02142017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	134	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	101	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	93.2	P	40 - 160
USGS O-2060-01	Diuron-d6	104	P	40 - 150
USGS O-2060-01	Primidone-d5	102	P	40 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A74500
Included Lab Sample IDs: 1873005, 1873006, 1873007, 1873010

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

Reference Method: EPA 8321B
Run ID: A74502
Included Lab Sample IDs: 1873037, 1873038, 1873039, 1873040, 1873041, 1873044

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	110	86.5	P/P	60 - 150
Sucralose	78.7	133	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A74505

Included Lab Sample IDs: 1872999, 1873000, 1873001, 1873008

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

Reference Method: SM 2120 B

Run ID: A74507

Included Lab Sample IDs: 1872999, 1873000, 1873001, 1873008

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

Reference Method: SM 5310 B-00

Run ID: A74535

Included Lab Sample IDs: 1873002, 1873003, 1873004, 1873009

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	96.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74583

Included Lab Sample IDs: 1873002, 1873003, 1873004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	98.0	P/P	90 - 110
Total-P	98.0	99.0	P/P	90 - 110
Total-P	98.7	98.2	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A74598

Included Lab Sample IDs: 1873037, 1873038, 1873039, 1873042, 1873043, 1873044

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	70.8	89.2	P/P	60 - 150
Acetaminophen	85.6	88.4	P/P	60 - 150
Carbamazepine	110	135	P/P	60 - 150
Carbamazepine	130	125	P/P	60 - 150
Diuron	104	100	P/P	60 - 150
Diuron	90.0	88.8	P/P	60 - 150
Diuron	94.4	95.6	P/P	60 - 150
Fenuron	102	98.8	P/P	60 - 150
Fenuron	104	101	P/P	60 - 150
Fenuron	98.4	109	P/P	60 - 150
Fluridone	79.2	76.0	P/P	60 - 150
Fluridone	90.4	94.4	P/P	60 - 150
Fluridone	92.4	84.4	P/P	60 - 150
Imidacloprid	86.4	82.0	P/P	60 - 150
Imidacloprid	91.2	85.2	P/P	60 - 150
Imidacloprid	92.8	87.2	P/P	60 - 150
Linuron	124	88.0	P/P	60 - 150
Linuron	65.2	83.6	P/P	60 - 150
Linuron	76.8	110	P/P	60 - 150
Primidone	102	96.4	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A74598

Included Lab Sample IDs: 1873037, 1873038, 1873039, 1873042, 1873043, 1873044

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	91.6	115	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74613

Included Lab Sample IDs: 1873009

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.0	97.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74614

Included Lab Sample IDs: 1873003, 1873004, 1873009

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.9	103	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A74621

Included Lab Sample IDs: 1872999, 1873000, 1873001, 1873008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	107	P/P	90 - 110
Total Alkalinity	107	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74627

Included Lab Sample IDs: 1873002, 1873003, 1873004, 1873009

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.9	P/P	90 - 110
Ammonia-N	99.9	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74663

Included Lab Sample IDs: 1873002

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A74690

Included Lab Sample IDs: 1872999, 1873000, 1873001, 1873008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	98.0	P/P	90 - 110
Fluoride	97.5	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74706

Included Lab Sample IDs: 1873002, 1873003, 1873004, 1873009

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74765

Included Lab Sample IDs: 1872999, 1873000, 1873001, 1873008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	105	108	P/P	90 - 110
Chloride	107	105	P/P	90 - 110
Sulfate	92.0	99.1	P/P	90 - 110
Sulfate	93.0	99.0	P/P	90 - 110
Sulfate	99.1	92.4	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					0.810	
EPA 300.0 Rev. 2.1	Chloride	107	105	106		0.0891	
	Sulfate	101	101	96.8		0.0002	
EPA 350.1 Rev. 2.0	Ammonia-N	102					1.81
	Ammonia-N	99.4	99.1	95.6			2.73
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	98.2	99.0			0.634
	Kjeldahl Nitrogen	104	103	103			0.438
EPA 353.2 Rev. 2.0	NO2NO3-N	104	107	105			1.89
EPA 365.1 Rev. 2.0	Total-P	99.0	92.6	95.0			2.31
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	98.6	97.9			0.587
EPA 8321B	Sucralose	83.2	92.7	119			19.3
SM 2120 B	Color (true)					1.34	
SM 2320 B-97	Total Alkalinity	104				0.0674	
SM 2540 C-97	TDS					1.77	
SM 2540 D-97	TSS					5.63	
SM 4500 F-C-97	Fluoride	96.6	95.8	96.9			0.996
SM 5310 B-00	Organic Carbon	94.8	94.0	95.8			1.95
USGS O-2060-01	Acetaminophen	86.8	68.8	64.4			6.61
	Acetaminophen	73.2	71.2	64.8			9.41
	Carbamazepine	111	68.4	82.0			18.1
	Carbamazepine	125	63.5	50.3			17.5
	Diuron	70.8	55.2	63.6			12.3
	Diuron	78.8	34.8	34.4			1.04
	Fenuron	82.4	68.0	70.8			4.03
	Fenuron	98.8	45.6	47.6			4.29
	Fluridone	67.6	64.0	68.4			6.65
	Fluridone	53.2	27.6	30.3			9.54
	Imidacloprid	82.0					

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
USGS O-2060-01	Imidacloprid	85.2	94.0	89.2		5.24
	Linuron	98.4	49.2	72.0		37.6
	Linuron	65.6	36.1	29.1		21.6
	Primidone	82.8	86.4	94.4		8.85
	Primidone	89.2	53.6	53.6		0.0

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1872999, 1873000, 1873001, 1873008
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1872999, 1873000, 1873001, 1873008
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1872999, 1873000, 1873001, 1873008
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1873002, 1873003, 1873004, 1873009
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1873002, 1873003, 1873004, 1873009
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1873002, 1873003, 1873004, 1873009
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1873002, 1873003, 1873004, 1873009
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1873005, 1873006, 1873007, 1873010
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1873037, 1873038, 1873039, 1873040, 1873041, 1873044
SM 2120 B / E31780	True Color measured at 450 nm	1872999, 1873000, 1873001, 1873008
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1872999, 1873000, 1873001, 1873008
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1872999, 1873000, 1873001
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1872999, 1873000, 1873001, 1873008
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1872999, 1873000, 1873001, 1873008
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1873002, 1873003, 1873004, 1873009
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1873037, 1873038, 1873039, 1873042, 1873043, 1873044

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	02/15/2017			02/15/2017 16:53	Julie Michelle Frank	1872999, 1873000, 1873001, 1873008
EPA 300.0 Rev. 2.1	02/15/2017			03/01/2017	Ping Hua	1872999, 1873000, 1873001, 1873008
EPA 350.1 Rev. 2.0	02/15/2017			02/21/2017	Sofia Elnemr	1873002, 1873003, 1873004, 1873009
EPA 351.2 Rev. 2.0	02/15/2017	02/17/2017	Adrian Shelby	02/21/2017	Joseph Suarez	1873003, 1873004, 1873009
	02/15/2017	02/21/2017	Adrian Shelby	02/23/2017	Joseph Suarez	1873002
EPA 353.2 Rev. 2.0	02/15/2017			02/24/2017	Beverly Y. Sanders	1873002, 1873003, 1873004, 1873009
EPA 365.1 Rev. 2.0	02/15/2017	02/17/2017	Vijayalakshmi Reddy	02/20/2017	Lipi Saha	1873002, 1873003, 1873004
	02/15/2017	02/17/2017	Vijayalakshmi Reddy	02/21/2017	Lipi Saha	1873009
EPA 365.1 Rev. 2.0 dissolved	02/15/2017			02/15/2017 14:53	Julia Storbeck	1873007
	02/15/2017			02/15/2017 14:59	Julia Storbeck	1873005, 1873010
	02/15/2017			02/15/2017 15:11	Julia Storbeck	1873006
EPA 8321B	02/15/2017	02/15/2017	Mohammad Ghaffari	02/15/2017	Mohammad Ghaffari	1873037, 1873038, 1873039, 1873040
	02/15/2017	02/15/2017	Mohammad Ghaffari	02/16/2017	Mohammad Ghaffari	1873041, 1873044
SM 2120 B	02/15/2017			02/15/2017 18:31	Julie Michelle Frank	1873000
	02/15/2017			02/15/2017 18:32	Julie Michelle Frank	1873001
	02/15/2017			02/15/2017 18:33	Julie Michelle Frank	1873008
	02/15/2017			02/15/2017 18:50	Julie Michelle Frank	1872999
SM 2320 B-97	02/15/2017			02/21/2017	Dale L. Simmons	1872999, 1873000, 1873001, 1873008
SM 2540 C-97	02/15/2017			02/17/2017	Yijie Li	1872999, 1873000, 1873001
SM 2540 D-97	02/15/2017			02/17/2017	Yijie Li	1872999, 1873000, 1873001, 1873008
SM 4500 F-C-97	02/15/2017			02/22/2017	Dale L. Simmons	1872999, 1873001
	02/15/2017			02/23/2017	Dale L. Simmons	1873000, 1873008
SM 5310 B-00	02/15/2017			02/16/2017	Julie Michelle Frank	1873002, 1873003, 1873004, 1873009
USGS O-2060-01	02/15/2017	02/17/2017	Hoor Shaik	02/18/2017	Juyoung Kim	1873037, 1873038, 1873039, 1873042
	02/15/2017	02/17/2017	Hoor Shaik	02/20/2017	Juyoung Kim	1873039
	02/15/2017	02/20/2017	Hoor Shaik	02/21/2017	Juyoung Kim	1873043, 1873044