

Chemical Analysis Report

WQAP-2017-10-06-01

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

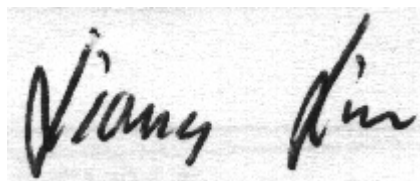
Event Description: **RUN 10**
Request ID: **RQ-2017-10-02-19**
Customer: **WQAP**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 25-OCT-2017 11:19

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

Case Narrative

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

Results for the following analytical 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: Clam Bayou

Collection Date/Time: 10/05/2017 09:17

Field ID: G5SW0135

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1934987	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P332899	
	SM 2320 B-97	Total Alkalinity	144		mg CaCO3/L	P333523	
	SM 2540 D-97	TSS	2	I	mg/L	P333109	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P333526	
1934988	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P333390	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P333129	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P333420	
	EPA 365.1 Rev. 2.0	Total-P	0.084		mg P/L	P333065	
	SM 5310 B-00	Organic Carbon	9.1		mg C/L	P333653	
1934989	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.064		mg P/L	P332886	
1935015	EPA 8321B	Sucralose**	0.28		ug/L	P332778	RPD
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P332779	
		Diuron	0.0045		ug/L	P332779	
		Fenuron	0.0080	U	ug/L	P332779	
		Imidacloprid	0.023		ug/L	P332779	
		Bentazon	0.0021	I	ug/L	P332779	MS
		Linuron	0.0040	U	ug/L	P332779	
		Acetaminophen**	0.0080	U	ug/L	P332779	
		MCPD	0.0020	U	ug/L	P332779	
		Carbamazepine**	7.9E-04	I	ug/L	P332779	
		Triclopyr**	0.0040	U	ug/L	P332779	
		Primidone**	0.0046	I	ug/L	P332779	
		Fluridone**	0.041		ug/L	P332779	

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.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: PP Ditch #1

Collection Date/Time: 10/05/2017 10:00

Field ID: G5SW0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1934981	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P332898	
	SM 2320 B-97	Total Alkalinity	206		mg CaCO3/L	P333523	
	SM 2540 D-97	TSS	4	I	mg/L	P333109	
	SM 4500 F-C-97	Fluoride	0.32		mg F/L	P333526	
1934982	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P333392	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P333459	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P333229	
	EPA 365.1 Rev. 2.0	Total-P	0.093		mg P/L	P333068	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P333653	
1934983	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.055		mg P/L	P332884	
1935013	EPA 8321B	Sucralose**	0.83		ug/L	P332778	RPD
	USGS O-2060-01	2,4-D	0.021		ug/L	P332779	

Field ID: G5SW0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1935013	USGS O-2060-01	Diuron	0.010		ug/L	P332779	
		Fenuron	0.011	I	ug/L	P332779	
		Imidacloprid	0.22		ug/L	P332779	
		Bentazon	0.022		ug/L	P332779	MS
		Linuron	0.0040	U	ug/L	P332779	
		Acetaminophen**	0.0080	U	ug/L	P332779	
		MCP	0.0024	I	ug/L	P332779	
		Carbamazepine**	0.0022		ug/L	P332779	
		Triclopyr**	0.0040	U	ug/L	P332779	
		Primidone**	0.0092	I	ug/L	P332779	
		Fluridone**	0.047		ug/L	P332779	

Ref. Method and Comment:

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: McKay Tidal

Collection Date/Time: 10/05/2017 10:40

Field ID: G5SW0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1935016	EPA 8321B	Sucralose**	0.78		ug/L	P333049	
	USGS O-2060-01	2,4-D	0.020		ug/L	P333050	
		Diuron	0.0015	I	ug/L	P333050	
		Fenuron	0.0080	U	ug/L	P333050	
		Imidacloprid	0.023		ug/L	P333050	MS
		Bentazon	0.017		ug/L	P333050	MS
		Linuron	0.0040	U	ug/L	P333050	
		Acetaminophen**	0.0080	U	ug/L	P333050	
		MCP	0.0020	U	ug/L	P333050	
		Carbamazepine**	0.0027		ug/L	P333050	
		Triclopyr**	0.0040	U	ug/L	P333050	MS
		Primidone**	0.0087	I	ug/L	P333050	
		Fluridone**	0.070		ug/L	P333050	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Mullet Crk Tidal

Collection Date/Time: 10/05/2017 11:40

Field ID: G1SW0055

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1934984	EPA 180.1 Rev. 2.0	Turbidity	3.7	A	NTU	P332899	
	SM 2320 B-97	Total Alkalinity	103		mg CaCO3/L	P333523	
	SM 2540 D-97	TSS	3	I	mg/L	P333109	
	SM 4500 F-C-97	Fluoride	0.32		mg F/L	P333526	
1934985	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P333390	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P333124	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P333420	

Field ID: G1SW0055

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1934985	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P333065	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P333653	
1934986	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P332886	
1935014	EPA 8321B	Sucralose**	0.76		ug/L	P332778	RPD
	USGS O-2060-01	2,4-D	0.016		ug/L	P332779	
		Diuron	0.0059		ug/L	P332779	
		Fenuron	0.0080	U	ug/L	P332779	
		Imidacloprid	0.13		ug/L	P332779	
		Bentazon	0.015		ug/L	P332779	MS
		Linuron	0.0040	U	ug/L	P332779	
		Acetaminophen**	0.0080	U	ug/L	P332779	
		MCP	0.0020	U	ug/L	P332779	
		Carbamazepine**	0.0019		ug/L	P332779	
		Triclopyr**	0.0040	U	ug/L	P332779	
		Primidone**	0.0041	I	ug/L	P332779	
		Fluridone**	0.091		ug/L	P332779	

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.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: Alligator Crk

Collection Date/Time: 10/05/2017 11:18

Field ID: G1SW0062

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1935017	EPA 8321B	Sucralose**	0.99		ug/L	P333049	
	USGS O-2060-01	2,4-D	0.53		ug/L	P333050	
		Diuron	0.0037		ug/L	P333050	
		Fenuron	0.0080	U	ug/L	P333050	
		Imidacloprid	0.036		ug/L	P333050	MS
		Bentazon	0.013		ug/L	P333050	MS
		Linuron	0.0040	U	ug/L	P333050	
		Acetaminophen**	0.0080	U	ug/L	P333050	
		MCP	0.0044	I	ug/L	P333050	
		Carbamazepine**	0.0021		ug/L	P333050	
		Triclopyr**	0.0040	U	ug/L	P333050	MS
		Primidone**	0.0070	I	ug/L	P333050	
		Fluridone**	0.090		ug/L	P333050	

Ref. Method and Comment:

EPA 8321B: Results confirmed in re-extraction.

USGS O-2060-01: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report

Method Blank Results

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P332898

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P332899

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P333390

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P333392

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333124

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333129

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333459

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333229

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333420

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: P333065

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P333068

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P332884

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P332886

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

Reference Method: EPA 8321B
Batch ID: P332778

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P333049

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-97
Batch ID: P333523

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

Reference Method: SM 2540 D-97
Batch ID: P333109

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P333526

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P333653

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

Reference Method: USGS O-2060-01
Batch ID: P332779

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: USGS O-2060-01
Batch ID: P333050

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P333390

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P333392

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333124

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: P333129

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333459

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333229

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333420

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: P333065

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P333068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P332884

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P332886

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P332778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P333049

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	116		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P333523

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P333526

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

Reference Method: SM 5310 B-00
Batch ID: P333653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P332779

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	109		P	40 - 150
Acetaminophen	103		P	30 - 150
Bentazon	43.4		P	30 - 150
Carbamazepine	126		P	40 - 150
Diuron	116		P	40 - 150
Fenuron	96.1		P	40 - 150
Fluridone	107		P	40 - 150
Imidacloprid	98.5		P	40 - 160
Linuron	95.6		P	40 - 150
MCP	121		P	40 - 150
Primidone	97.2		P	40 - 150
Triclopyr	125		P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P333050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	63.2		P	40 - 150
Acetaminophen	111		P	30 - 150
Bentazon	30.3		P	30 - 150
Carbamazepine	104		P	40 - 150
Diuron	99.7		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P333050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	93.4		P	40 - 150
Fluridone	109		P	40 - 150
Imidacloprid	92.6		P	40 - 160
Linuron	94.7		P	40 - 150
MCPP	63.8		P	40 - 150
Primidone	97.1		P	40 - 150
Triclopyr	62.7		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P333392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934982	Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333124

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934985	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333129

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934988	Kjeldahl Nitrogen	94.5	91.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333459

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1935028	Kjeldahl Nitrogen	107	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934982	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934451	NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P333065

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P333065

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934455	Total-P	91.6	91.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P333068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934953	Total-P	99.7	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P332884

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934983	O-Phosphate-P	94.1	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P332886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934989	O-Phosphate-P	96.9	98.2	P/P	90 - 110

Reference Method: EPA 8321B
 Batch ID: P332778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934706	Sucralose	69.3	114	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P333049

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1935016	Sucralose	66.8	86.8	P/P	40 - 150

Reference Method: SM 4500 F-C-97
 Batch ID: P333526

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1935177	Fluoride	101	102	P/P	91 - 105

Reference Method: USGS O-2060-01
 Batch ID: P332779

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1934706	2,4-D	66.3	58.8	P/P	40 - 150
1934706	Acetaminophen	84.5	80.9	P/P	30 - 150
1934706	Bentazon	25.7	21.7	F/F	30 - 150
1934706	Carbamazepine	90.7	94.5	P/P	40 - 150
1934706	Diuron	76.1	79.7	P/P	40 - 150
1934706	Fenuron	82.5	90.8	P/P	40 - 150
1934706	Linuron	91.9	98.1	P/P	40 - 150
1934706	MCP	50.3	53.1	P/P	40 - 150
1934706	Primidone	105	107	P/P	40 - 150
1934706	Triclopyr	47.5	50.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
 Batch ID: P333050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1935465	Acetaminophen	98.9	96.0	P/P	30 - 150
1935465	Bentazon	18.5	18.0	F/F	30 - 150
1935465	Carbamazepine	83.5	78.7	P/P	40 - 150
1935465	Diuron	58.1	56.6	P/P	40 - 150
1935465	Fenuron	88.5	85.1	P/P	40 - 150
1935465	Fluridone	82.4	80.9	P/P	40 - 150
1935465	Imidacloprid	177	168	F/F	40 - 160
1935465	Linuron	76.8	75.3	P/P	40 - 150
1935465	MCP	44.5	44.8	P/P	40 - 150
1935465	Primidone	114	116	P/P	40 - 150
1935465	Triclopyr	38.5	37.2	F/F	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P332898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934934	Turbidity	0.560	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P332899

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934984	Turbidity	2.96	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P333390

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934985	Ammonia-N	1.26	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P333392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934982	Ammonia-N	0.348	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P333124

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934985	Kjeldahl Nitrogen	0.151	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934988	Kjeldahl Nitrogen	2.48	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P333459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1935028	Kjeldahl Nitrogen	2.34	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934982	NO2NO3-N	0.258	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P333420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934451	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P333065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934455	Total-P	0.373	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P333068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934953	Total-P	1.46	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P332884

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934983	O-Phosphate-P	1.60	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P332886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934989	O-Phosphate-P	0.805	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P332778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934706	Sucralose	30.9	Spike	F	0 - 30

Reference Method: EPA 8321B
Batch ID: P333049

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1935016	Sucralose	17.9	Spike	P	0 - 30

Reference Method: SM 2320 B-97
Batch ID: P333523

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1935177	Total Alkalinity	0.0131	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
Batch ID: P333526

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1935177	Fluoride	0.473	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P333653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934955	Organic Carbon	1.33	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P332779

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1934706	2,4-D	4.57	Spike	P	0 - 30
1934706	Acetaminophen	4.40	Spike	P	0 - 30
1934706	Bentazon	4.62	Spike	P	0 - 30
1934706	Carbamazepine	3.92	Spike	P	0 - 30
1934706	Diuron	3.96	Spike	P	0 - 30
1934706	Fenuron	9.55	Spike	P	0 - 30
1934706	Fluridone	4.22	Spike	P	0 - 30
1934706	Imidacloprid	2.56	Spike	P	0 - 30
1934706	Linuron	6.61	Spike	P	0 - 30
1934706	MCP	5.30	Spike	P	0 - 30
1934706	Primidone	1.90	Spike	P	0 - 30
1934706	Triclopyr	6.44	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P333050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1935465	2,4-D	3.65	Spike	P	0 - 30
1935465	Acetaminophen	2.98	Spike	P	0 - 30
1935465	Bentazon	2.52	Spike	P	0 - 30
1935465	Carbamazepine	5.92	Spike	P	0 - 30
1935465	Diuron	1.45	Spike	P	0 - 30
1935465	Fenuron	3.92	Spike	P	0 - 30
1935465	Fluridone	1.69	Spike	P	0 - 30
1935465	Imidacloprid	3.80	Spike	P	0 - 30
1935465	Linuron	1.97	Spike	P	0 - 30
1935465	MCP	0.672	Spike	P	0 - 30
1935465	Primidone	1.83	Spike	P	0 - 30
1935465	Triclopyr	3.33	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: 1935013
Field Sample ID: G5SW0134

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	78.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.3	P	30 - 160
EPA 8321B	Diuron-d6	60.7	P	30 - 160
EPA 8321B	Primidone-d5	90.9	P	30 - 160
EPA 8321B	Sucralose-d6	83.5	P	40 - 160
USGS O-2060-01	2,4-D-d3	65.5	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	78.0	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	92.3	P	30 - 160
USGS O-2060-01	Diuron-d6	60.7	P	30 - 160
USGS O-2060-01	Primidone-d5	90.9	P	30 - 160
USGS O-2060-01	Sucralose-d6	83.5	P	40 - 160

Lab Sample ID: 1935014
Field Sample ID: G1SW0055

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	65.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.5	P	30 - 160
EPA 8321B	Diuron-d6	66.8	P	30 - 160
EPA 8321B	Primidone-d5	93.2	P	30 - 160
EPA 8321B	Sucralose-d6	81.2	P	40 - 160
USGS O-2060-01	2,4-D-d3	59.6	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	65.1	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	89.5	P	30 - 160
USGS O-2060-01	Diuron-d6	66.8	P	30 - 160
USGS O-2060-01	Primidone-d5	93.2	P	30 - 160
USGS O-2060-01	Sucralose-d6	81.2	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1935015
Field Sample ID: G5SW0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	80.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	98.3	P	30 - 160
EPA 8321B	Diuron-d6	70.3	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	82.8	P	40 - 160
USGS O-2060-01	2,4-D-d3	62.3	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	80.1	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	98.3	P	30 - 160
USGS O-2060-01	Diuron-d6	70.3	P	30 - 160
USGS O-2060-01	Primidone-d5	104	P	30 - 160
USGS O-2060-01	Sucralose-d6	82.8	P	40 - 160

Lab Sample ID: 1935016
Field Sample ID: G5SW0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	75.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	100	P	30 - 160
EPA 8321B	Diuron-d6	69.0	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	81.8	P	40 - 160
USGS O-2060-01	2,4-D-d3	59.3	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	75.2	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	100	P	30 - 160
USGS O-2060-01	Diuron-d6	69.0	P	30 - 160
USGS O-2060-01	Primidone-d5	103	P	30 - 160
USGS O-2060-01	Sucralose-d6	81.8	P	40 - 160

Lab Sample ID: 1935017
Field Sample ID: G1SW0062

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	78.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.1	P	30 - 160
EPA 8321B	Diuron-d6	62.2	P	30 - 160
EPA 8321B	Primidone-d5	96.4	P	30 - 160
EPA 8321B	Sucralose-d6	90.8	P	40 - 160
USGS O-2060-01	2,4-D-d3	68.6	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	78.9	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	87.1	P	30 - 160
USGS O-2060-01	Diuron-d6	62.2	P	30 - 160
USGS O-2060-01	Primidone-d5	96.4	P	30 - 160
USGS O-2060-01	Sucralose-d6	90.8	P	40 - 160

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A79397

Included Lab Sample IDs: 1934983, 1934986, 1934989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.8	97.9	P/P	90 - 110
O-Phosphate-P	97.9	98.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A79400

Included Lab Sample IDs: 1934981, 1934984, 1934987

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

Reference Method: USGS O-2060-01

Run ID: A79478

Included Lab Sample IDs: 1935013, 1935014, 1935015, 1935016, 1935017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.3	97.5	P/P	50 - 150
2,4-D	97.5	96.7	P/P	50 - 150
Acetaminophen	92.9	93.9	P/P	60 - 150
Acetaminophen	94.5	92.9	P/P	60 - 150
Bentazon	87.1	95.0	P/P	50 - 150
Bentazon	95.0	90.6	P/P	50 - 150
Carbamazepine	96.0	96.7	P/P	60 - 150
Carbamazepine	96.7	97.9	P/P	60 - 150
Diuron	94.9	95.2	P/P	60 - 150
Diuron	95.2	102	P/P	60 - 150
Fenuron	94.3	95.5	P/P	60 - 150
Fenuron	95.5	93.9	P/P	60 - 150
Fluridone	105	110	P/P	60 - 160
Fluridone	110	107	P/P	60 - 160
Imidacloprid	91.5	94.2	P/P	60 - 150
Imidacloprid	94.2	92.1	P/P	60 - 150
Linuron	101	98.2	P/P	60 - 150
Linuron	103	101	P/P	60 - 150
MCP	102	95.0	P/P	50 - 150
MCP	98.6	102	P/P	50 - 150
Primidone	107	94.6	P/P	60 - 150
Primidone	94.6	96.6	P/P	60 - 150
Triclopyr	100	96.4	P/P	50 - 150
Triclopyr	103	100	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A79486

Included Lab Sample IDs: 1934982, 1934985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	102	P/P	90 - 110
Total-P	100	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A79494

Included Lab Sample IDs: 1934988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A79506

Included Lab Sample IDs: 1934982

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

Reference Method: EPA 8321B

Run ID: A79511

Included Lab Sample IDs: 1935013, 1935014, 1935015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	94.8	101	P/P	60 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A79545

Included Lab Sample IDs: 1934988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A79555

Included Lab Sample IDs: 1934982, 1934985, 1934988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	101	P/P	90 - 110
Ammonia-N	101	100	P/P	90 - 110
Ammonia-N	99.8	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A79566

Included Lab Sample IDs: 1934985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.0	93.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A79568

Included Lab Sample IDs: 1934985, 1934988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A79590

Included Lab Sample IDs: 1935016, 1935017

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

Reference Method: EPA 8321B

Run ID: A79590

Included Lab Sample IDs: 1935016, 1935017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	92.6	93.7	P/P	60 - 150
Sucralose	98.8	96.4	P/P	60 - 150

Reference Method: SM 2320 B-97

Run ID: A79620

Included Lab Sample IDs: 1934981, 1934984, 1934987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.6	P/P	90 - 110
Total Alkalinity	99.6	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A79620

Included Lab Sample IDs: 1934981, 1934984, 1934987

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A79645

Included Lab Sample IDs: 1934982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	105	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A79655

Included Lab Sample IDs: 1934982, 1934985, 1934988

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

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				0.560	
	Turbidity				2.96	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0				1.26
	Ammonia-N	99.8	99.8	101		0.348
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	101	102		0.151
	Kjeldahl Nitrogen	96.8	94.5	91.5		2.48
	Kjeldahl Nitrogen	99.9	107	110		2.34
EPA 353.2 Rev. 2.0	NO2NO3-N	105	102	102		0.258

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 353.2 Rev. 2.0	NO2NO3-N	104	102			0.0
EPA 365.1 Rev. 2.0	Total-P	96.6	91.6	91.9		0.373
	Total-P	99.2	99.7	98.0		1.46
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.6	94.1	96.5		1.60
	O-Phosphate-P	98.0	96.9	98.2		0.805
EPA 8321B	Sucralose	101	69.3	114		30.9
	Sucralose	116	66.8	86.8		17.9
SM 2320 B-97	Total Alkalinity	102			0.0131	
SM 4500 F-C-97	Fluoride	99.0	101	102		0.473
SM 5310 B-00	Organic Carbon	101				1.33
USGS O-2060-01	2,4-D	109	66.3	58.8		4.57
	2,4-D	63.2				3.65
	Acetaminophen	103	84.5	80.9		4.40
	Acetaminophen	111	98.9	96.0		2.98
	Bentazon	43.4	25.7	21.7		4.62
	Bentazon	30.3	18.5	18.0		2.52
	Carbamazepine	126	90.7	94.5		3.92
	Carbamazepine	104	83.5	78.7		5.92
	Diuron	116	76.1	79.7		3.96
	Diuron	99.7	58.1	56.6		1.45
	Fenuron	96.1	82.5	90.8		9.55
	Fenuron	93.4	88.5	85.1		3.92
	Fluridone	107				4.22
	Fluridone	109	82.4	80.9		1.69
	Imidacloprid	98.5				2.56
	Imidacloprid	92.6	177	168		3.80
	Linuron	95.6	91.9	98.1		6.61
	Linuron	94.7	76.8	75.3		1.97
	MCPP	121	50.3	53.1		5.30
	MCPP	63.8	44.5	44.8		0.672
	Primidone	97.2	105	107		1.90
	Primidone	97.1	114	116		1.83
	Triclopyr	125	47.5	50.6		6.44
	Triclopyr	62.7	38.5	37.2		3.33

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1934981, 1934984, 1934987
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1934982, 1934985, 1934988
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1934982, 1934985, 1934988
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1934982, 1934985, 1934988
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1934982, 1934985, 1934988
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1934983, 1934986, 1934989
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1935013, 1935014, 1935015, 1935016, 1935017
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1934981, 1934984, 1934987
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1934981, 1934984, 1934987

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1934981, 1934984, 1934987
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1934982, 1934985, 1934988
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1935013, 1935014, 1935015, 1935016, 1935017
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1935013, 1935014, 1935015, 1935016, 1935017

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	10/06/2017			10/06/2017 17:25	Tanya Welborn	1934981, 1934984, 1934987
EPA 350.1 Rev. 2.0	10/06/2017			10/13/2017	Sofia Elnemr	1934982, 1934985, 1934988
EPA 351.2 Rev. 2.0	10/06/2017	10/11/2017	Adrian Shelby	10/12/2017	Joseph Suarez	1934988
	10/06/2017	10/11/2017	Adrian Shelby	10/13/2017	Virginia P. Brown	1934985
	10/06/2017	10/16/2017	Sofia Elnemr	10/18/2017	Joseph Suarez	1934982
EPA 353.2 Rev. 2.0	10/06/2017			10/12/2017	Beverly Y. Sanders	1934982
	10/06/2017			10/16/2017	Beverly Y. Sanders	1934985, 1934988
EPA 365.1 Rev. 2.0	10/06/2017	10/10/2017	Sima Feizi	10/11/2017	Lipi Saha	1934982, 1934985, 1934988
EPA 365.1 Rev. 2.0 dissolved	10/06/2017			10/06/2017 15:00	Megan Treadwell	1934983
	10/06/2017			10/06/2017 15:13	Megan Treadwell	1934989
	10/06/2017			10/06/2017 15:19	Megan Treadwell	1934986
EPA 8321B	10/06/2017	10/11/2017	Juyoung Kim	10/11/2017	Juyoung Kim	1935013, 1935014, 1935015
	10/06/2017	10/12/2017	Juyoung Kim	10/12/2017	Juyoung Kim	1935016, 1935017
SM 2320 B-97	10/06/2017			10/16/2017	Dale L. Simmons	1934981
	10/06/2017			10/17/2017	Dale L. Simmons	1934984, 1934987
SM 2540 D-97	10/06/2017			10/09/2017	Yijie Li	1934981, 1934984, 1934987
SM 4500 F-C-97	10/06/2017			10/16/2017	Dale L. Simmons	1934981
	10/06/2017			10/17/2017	Dale L. Simmons	1934984, 1934987
SM 5310 B-00	10/06/2017			10/18/2017	Ping Hua	1934982, 1934985, 1934988
USGS O-2060-01	10/06/2017	10/10/2017	Hoor Shaik	10/12/2017	Julie Michelle Frank	1935013, 1935014, 1935015
	10/06/2017	10/12/2017	Hoor Shaik	10/13/2017	Julie Michelle Frank	1935016, 1935017