

Chemical Analysis Report

NE-DIST-2017-11-16-01

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

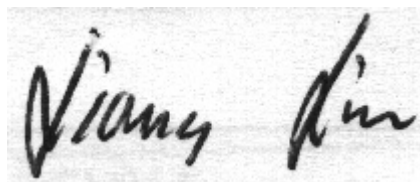
Event Description: **Gainesville 1**
Request ID: **RQ-2017-11-20-12**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 22-DEC-2017 10:27

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: Metals, 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: ALLIGATOR CREEK ABOVE STARKE WWTP
 ON US 301**

Collection Date/Time: 11/15/2017 09:50

Field ID: G1NE0557

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946915	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P335461	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P335506	
		Sulfate	52		mg SO4/L	P335509	
	SM 2120 B	Color (true)	32	A	PCU	P335471	
	SM 2320 B-97	Total Alkalinity	17		mg CaCO3/L	P335919	
	SM 2540 C-97	TDS	154		mg/L	P335955	
	SM 2540 D-97	TSS	2	U	mg/L	P335783	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P335922	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.51		mg N/L	P336279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P336047	
1946919	EPA 353.2 Rev. 2.0	NO2NO3-N	0.36		mg N/L	P335898	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P335877	
	SM 5310 B-00	Organic Carbon	4.9		mg C/L	P335968	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P335481	
	dissolved						

Ref. Method and Comment:

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

**Sample Location: MONTEOCHA CREEK @ CR 340 (NE 156TH
 AVE)**

Collection Date/Time: 11/15/2017 10:30

Field ID: G1NE0591

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946916	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P335461	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P335506	
		Sulfate	2.2		mg SO4/L	P335509	
	SM 2120 B	Color (true)	250		PCU	P335484	
	SM 2320 B-97	Total Alkalinity	1.4	I	mg CaCO3/L	P335919	
	SM 2540 C-97	TDS	49		mg/L	P335955	
	SM 2540 D-97	TSS	2	U	mg/L	P335783	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P335922	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.081		mg N/L	P336250	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P336283	
1946920	EPA 353.2 Rev. 2.0	NO2NO3-N	0.027		mg N/L	P335899	
	EPA 365.1 Rev. 2.0	Total-P	0.66		mg P/L	P335877	
	SM 5310 B-00	Organic Carbon	22		mg C/L	P335968	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.64		mg P/L	P335476	
	dissolved						

Ref. Method and Comment:

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

Sample Location: TURKEY CREEK @ NW 59TH

Collection Date/Time: 11/15/2017 11:00

Field ID: G1NE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946917	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P335461	

Field ID: G1NE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946917	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P335506	
		Sulfate	21		mg SO4/L	P335509	
	SM 2120 B	Color (true)	170		PCU	P335484	
	SM 2320 B-97	Total Alkalinity	88		mg CaCO3/L	P335919	
	SM 2540 C-97	TDS	171		mg/L	P335955	
	SM 2540 D-97	TSS	2	U	mg/L	P335784	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P335922	
1946921	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P336250	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P336050	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P335899	
	EPA 365.1 Rev. 2.0	Total-P	0.39		mg P/L	P335877	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P335968	
1946925	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.35		mg P/L	P335476	

Ref. Method and Comment:

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

Sample Location: BLUES CREEK @ NW 71ST ST. GAINESVILLE **Collection Date/Time: 11/15/2017 11:45**

Field ID: G1NE0568

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946918	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P335461	
	EPA 300.0 Rev. 2.1	Chloride	36		mg Cl/L	P335506	
		Sulfate	6.2		mg SO4/L	P335509	
	SM 2120 B	Color (true)	160		PCU	P335484	
	SM 2320 B-97	Total Alkalinity	36		mg CaCO3/L	P335919	
	SM 2540 C-97	TDS	123		mg/L	P335955	
	SM 2540 D-97	TSS	2	UA	mg/L	P335784	
1946922	SM 4500 F-C-97	Fluoride	0.31		mg F/L	P335922	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P336250	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P336283	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P335899	
	EPA 365.1 Rev. 2.0	Total-P	0.84		mg P/L	P335879	
1946926	SM 5310 B-00	Organic Carbon	13		mg C/L	P335968	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.73		mg P/L	P335481	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LAKE ALICE OUTLET @ GALE LEMMERON RD. **Collection Date/Time: 11/15/2017 12:50**

Field ID: G1NE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946927	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P335462	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P335506	
		Sulfate	60		mg SO4/L	P335509	

Field ID: G1NE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946927	SM 2120 B	Color (true)	16		PCU	P335471	
	SM 2320 B-97	Total Alkalinity	108		mg CaCO3/L	P335919	
	SM 2540 C-97	TDS	242		mg/L	P335955	
	SM 2540 D-97	TSS	3	I	mg/L	P335784	
	SM 4500 F-C-97	Fluoride	0.39		mg F/L	P335922	
1946928	EPA 350.1 Rev. 2.0	Ammonia-N	0.045		mg N/L	P336250	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.46		mg N/L	P336050	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P335899	
	EPA 365.1 Rev. 2.0	Total-P	0.61		mg P/L	P335879	
	SM 5310 B-00	Organic Carbon	4.0		mg C/L	P335968	
1946929	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.54		mg P/L	P335481	
1946970	EPA 200.7 Rev. 4.4	Calcium	55.2		mg/L	P335746	
		Iron	120		ug/L	P335746	
		Magnesium	10.5		mg/L	P335746	
		Potassium	2.1		mg/L	P335746	
		Sodium	18.5		mg/L	P335746	
		Zinc	5.6	I	ug/L	P335746	
	EPA 200.8 Rev. 5.4	Arsenic	0.92		ug/L	P335746	
		Cadmium	0.020	U	ug/L	P335746	
		Chromium	0.40	U	ug/L	P335746	
		Copper	2.92		ug/L	P335746	
		Lead	0.53		ug/L	P335746	
		Nickel	0.65	I	ug/L	P335746	
		Silver	0.016	I	ug/L	P335746	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: LAKE ALICE OUTLET @ GALE LEMMERON RD.

Collection Date/Time: 11/15/2017 12:50

Field ID: G1NE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946958	EPA 8321B	Glyphosate**	0.40	I	ug/L	P335313	
		Pyraclostrobin**	0.0020	U	ug/L	P335612	
		Sucralose**	3.0		ug/L	P335618	
	USGS O-2060-01	2,4-D	0.066		ug/L	P335388	MS
		Diuron	0.0050		ug/L	P335388	
		Fenuron	0.0080	U	ug/L	P335388	
		Imidacloprid	0.019		ug/L	P335388	
		Bentazon	0.0028	I	ug/L	P335388	MS
		Linuron	0.0040	U	ug/L	P335388	
		Acetaminophen**	0.0080	U	ug/L	P335388	
		MCPD	0.0020	U	ug/L	P335388	
		Carbamazepine**	0.0023		ug/L	P335388	

Field ID: G1NE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946958	USGS O-2060-01	Triclopyr**	0.0040	U	ug/L	P335388	
		Primidone**	0.0049	I	ug/L	P335388	RPD
		Fluridone**	4.0E-04	U	ug/L	P335388	
1946968	EPA 8270D	Aldrin	4.1	UQ	ng/L	P336701	
		Alpha-BHC	2.1	UQ	ng/L	P336701	
		Beta-BHC	4.1	UQ	ng/L	P336701	
		Delta-BHC	4.1	UQ	ng/L	P336701	
		Gamma-BHC	4.1	UQ	ng/L	P336701	
		Carbophenothion	4.1	UQ	ng/L	P336701	
		Chlorothalonil	2.1	UQ	ng/L	P336701	RPD
		Cypermethrin	21	UQ	ng/L	P336701	
		DDD-p,p'	3.1	UQ	ng/L	P336701	
		DDE-p,p'	3.1	UQ	ng/L	P336701	
		DDT-p,p'	3.1	UQ	ng/L	P336701	
		Dieldrin	4.1	UQ	ng/L	P336701	
		Endosulfan I	4.1	UQ	ng/L	P336701	
		Endosulfan II	4.1	UQ	ng/L	P336701	
		Endosulfan Sulfate	2.1	UQ	ng/L	P336701	
		Endrin	2.1	UQ	ng/L	P336701	
		Endrin Aldehyde	2.1	UQ	ng/L	P336701	
		Heptachlor	1.5	UQ	ng/L	P336701	
		Heptachlor Epoxide	2.1	UQ	ng/L	P336701	
		Methoxychlor	4.1	UQ	ng/L	P336701	
		Mirex	2.1	UQ	ng/L	P336701	
		Permethrin	10	UQ	ng/L	P336701	
		Trifluralin	1.0	UQ	ng/L	P336701	
		Alpha-Chlordane	1.0	UQ	ng/L	P336701	
		Gamma-Chlordane	1.0	UQ	ng/L	P336701	
		Endrin Ketone	2.1	UQ	ng/L	P336701	
		Dicofol	31	UQ	ng/L	P336701	
		Chlordane**	4.4	IQ	ng/L	P336701	
		Toxaphene**	13	UQ	ng/L	P336701	
1946969	EPA 8270D	Alachlor	0.24	U	ng/L	P335622	
		Ametryn	0.31	UJ	ng/L	P335622	LCS
		Atrazine	19		ng/L	P335622	
		Atrazine Desethyl	2.5	I	ng/L	P335622	
		Azinphos Methyl	2.1	U	ng/L	P335622	
		Bromacil	84		ng/L	P335622	
		Butylate	0.38	U	ng/L	P335622	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P335622	
		Chlorpyrifos Methyl	0.095	U	ng/L	P335622	
		Demeton	1.9	UJ	ng/L	P335622	RPD
		Diazinon	0.12	UJ	ng/L	P335622	LCS, MS
		Disulfoton	0.47	UJ	ng/L	P335622	RPD
		EPTC	1.2	UJ	ng/L	P335622	LCS

Field ID: G1NE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946969	EPA 8270D	Ethion	0.14	U	ng/L	P335622	
		Ethoprop	0.095	U	ng/L	P335622	
		Fenamiphos	0.24	U	ng/L	P335622	
		Fipronil	1.3		ng/L	P335622	
		Fipronil Sulfide	4.4		ng/L	P335622	
		Fipronil Sulfone	6.5		ng/L	P335622	
		Hexazinone	0.47	U	ng/L	P335622	
		Malathion	0.33	U	ng/L	P335622	
		Metribuzin	0.19	UJ	ng/L	P335622	MS
		Mevinphos	0.47	U	ng/L	P335622	
		Molinate	0.28	UJ	ng/L	P335622	LCS
		Norflurazon	0.47	U	ng/L	P335622	
		Pendimethalin	0.95	U	ng/L	P335622	
		Phorate	0.24	U	ng/L	P335622	
		Prometon	0.85	U	ng/L	P335622	
		Prometryn	0.19	UJ	ng/L	P335622	LCS
		Simazine	4.4		ng/L	P335622	
		Terbufos	0.095	U	ng/L	P335622	
		Terbuthylazine	0.40	U	ng/L	P335622	
		Fonofos	0.19	U	ng/L	P335622	
		Metalaxyl	0.24	U	ng/L	P335622	
		Metolachlor	0.24	UJ	ng/L	P335622	LCS
		Acetochlor	0.24	UJ	ng/L	P335622	LCS, MS
		Cyanazine	0.47	UJ	ng/L	P335622	LCS
		Parathion Ethyl	0.24	U	ng/L	P335622	
		Parathion Methyl	0.24	U	ng/L	P335622	

Ref. Method and Comment:

EPA 8270D: Sample expired for preparation due to necessary re-extraction.

EPA 8276: Sample expired due to need for re-extraction.

EPA 8270D: MS accuracy for Atrazine, Simazine, Bromacil, Fipronil Sulfide and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Sample Location: ALLIGATOR CREEK ABOVE STARKE WWTP ON US 301 **Collection Date/Time: 11/15/2017 09:50**

Field ID: G1NE0557

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946959	EPA 8321B	Sucralose**	0.040	I	ug/L	P335618	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P335388	MS
		Diuron	8.0E-04	U	ug/L	P335388	
		Fenuron	0.0080	U	ug/L	P335388	
		Imidacloprid	8.0E-04	U	ug/L	P335388	
		Bentazon	8.0E-04	U	ug/L	P335388	MS
		Linuron	0.0040	U	ug/L	P335388	
		Acetaminophen**	0.0080	U	ug/L	P335388	
		MCP	0.0020	U	ug/L	P335388	
		Carbamazepine**	4.0E-04	U	ug/L	P335388	

Field ID: G1NE0557

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946959	USGS O-2060-01	Triclopyr**	0.0040	U	ug/L	P335388	
		Primidone**	0.0040	U	ug/L	P335388	RPD
		Fluridone**	4.0E-04	U	ug/L	P335388	

Sample Location: MONTEOCHA CREEK @ CR 340 (NE 156TH AVE)

Collection Date/Time: 11/15/2017 10:30

Field ID: G1NE0591

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946960	EPA 8321B	Sucralose**	0.095		ug/L	P335618	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P335388	MS
		Diuron	8.0E-04	U	ug/L	P335388	
		Fenuron	0.0080	U	ug/L	P335388	
		Imidacloprid	8.0E-04	U	ug/L	P335388	
		Bentazon	8.0E-04	U	ug/L	P335388	MS
		Linuron	0.0040	U	ug/L	P335388	
		Acetaminophen**	0.0080	U	ug/L	P335388	
		MCP	0.0020	U	ug/L	P335388	
		Carbamazepine**	4.0E-04	U	ug/L	P335388	
		Triclopyr**	0.0040	U	ug/L	P335388	
		Primidone**	0.0040	U	ug/L	P335388	RPD
		Fluridone**	4.0E-04	U	ug/L	P335388	

Sample Location: TURKEY CREEK @ NW 59TH

Collection Date/Time: 11/15/2017 11:00

Field ID: G1NE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946961	EPA 8321B	Sucralose**	0.28		ug/L	P335618	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P335388	MS
		Diuron	0.0044		ug/L	P335388	
		Fenuron	0.0094	I	ug/L	P335388	
		Imidacloprid	8.0E-04	U	ug/L	P335388	
		Bentazon	8.0E-04	U	ug/L	P335388	MS
		Linuron	0.0040	U	ug/L	P335388	
		Acetaminophen**	0.0080	U	ug/L	P335388	
		MCP	0.0020	U	ug/L	P335388	
		Carbamazepine**	4.0E-04	U	ug/L	P335388	
		Triclopyr**	0.0040	U	ug/L	P335388	
		Primidone**	0.0040	U	ug/L	P335388	RPD
		Fluridone**	4.0E-04	U	ug/L	P335388	

Sample Location: BLUES CREEK @ NW 71ST ST. GAINESVILLE

Collection Date/Time: 11/15/2017 11:45

Field ID: G1NE0568

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946962	EPA 8321B	Sucralose**	0.32		ug/L	P335618	

Field ID: G1NE0568

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946962	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P335388	MS
		Diuron	0.0019	I	ug/L	P335388	
		Fenuron	0.0080	U	ug/L	P335388	
		Imidacloprid	0.0017	I	ug/L	P335388	
		Bentazon	8.0E-04	U	ug/L	P335388	MS
		Linuron	0.0040	U	ug/L	P335388	
		Acetaminophen**	0.0080	U	ug/L	P335388	
		MCP	0.0020	U	ug/L	P335388	
		Carbamazepine**	0.0027		ug/L	P335388	
		Triclopyr**	0.0040	U	ug/L	P335388	
		Primidone**	0.0040	U	ug/L	P335388	RPD
		Fluridone**	4.0E-04	U	ug/L	P335388	

Sample Location: HOGTOWN CREEK @ NW 8TH AVE

Collection Date/Time: 11/15/2017 12:20

Field ID: 2002002FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1946963	EPA 8321B	Sucralose**	0.21		ug/L	P335618	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P335388	MS
		Diuron	8.0E-04	U	ug/L	P335388	
		Fenuron	0.0080	U	ug/L	P335388	
		Imidacloprid	0.010		ug/L	P335388	
		Bentazon	8.0E-04	U	ug/L	P335388	MS
		Linuron	0.0040	U	ug/L	P335388	
		Acetaminophen**	0.0080	U	ug/L	P335388	
		MCP	0.0020	U	ug/L	P335388	
		Carbamazepine**	4.0E-04	U	ug/L	P335388	
		Triclopyr**	0.0040	U	ug/L	P335388	
		Primidone**	0.0040	U	ug/L	P335388	RPD
		Fluridone**	4.0E-04	U	ug/L	P335388	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P335461

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P335462

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335746

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335746

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335506

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335509

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336250

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336279

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336047

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: P336050

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336283

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335898

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335899

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P335877

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P335879

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335476

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335481

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

Reference Method: EPA 8270D
Batch ID: P335622

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P335622

Component	Result	Code	Units
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270D

Batch ID: P336701

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P336701

Component	Result	Code	Units
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8276
Batch ID: P336701

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	12	U	ng/L

Reference Method: EPA 8321B
Batch ID: P335313

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P335612

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P335618

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P335471

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P335484

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P335919

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

Reference Method: SM 2540 C-97
Batch ID: P335955

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P335783

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P335784

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P335922

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P335968

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

Reference Method: USGS O-2060-01
Batch ID: P335388

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
MCPP	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 200.7 Rev. 4.4
Batch ID: P335746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	108		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	102		P	85 - 115
Sodium	99.8		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	104		P	85 - 115
Cadmium	107		P	85 - 115
Chromium	101		P	85 - 115
Copper	102		P	85 - 115
Lead	102		P	85 - 115
Nickel	103		P	85 - 115
Silver	106		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335509

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336250

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336279

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336047

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	91.8		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336050

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: P336283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335898

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: P335899

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: P335877

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P335879

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335476

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335481

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

Reference Method: EPA 8270D
Batch ID: P335622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	76.2	77.3	F/F	78 - 118
Alachlor	77.1	78.9	P/P	77 - 119
Ametryn	61.9	56.4	P/F	61 - 136
Atrazine	78.1	82.8	P/P	73 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P335622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	99.9	103	P/P	16 - 122
Azinphos Methyl	118	113	P/P	69 - 186
Bromacil	81.9	81.9	P/P	40 - 125
Butylate	35.9	35.8	P/P	32 - 87.0
Chlorpyrifos Ethyl	82.9	80.8	P/P	53 - 110
Chlorpyrifos Methyl	86.5	84.9	P/P	31 - 119
Cyanazine	260	265	F/F	36 - 224
Demeton	44.5	66.6	P/P	39 - 122
Diazinon	72.9	72.8	F/F	75 - 119
Disulfoton	58.2	84.0	P/P	42 - 139
EPTC	31.5	34.2	F/P	33 - 96.0
Ethion	75.1	86.1	P/P	63 - 127
Ethoprop	77.2	76.7	P/P	65 - 107
Fenamiphos	80.4	88.3	P/P	64 - 137
Fipronil	76.6	79.3	P/P	60 - 126
Fipronil Sulfide	71.9	73.6	P/P	58 - 124
Fipronil Sulfone	75.6	77.7	P/P	57 - 126
Fonofos	79.8	81.3	P/P	65 - 111
Hexazinone	76.8	78.0	P/P	46 - 151
Malathion	86.0	88.3	P/P	68 - 132
Metalaxyl	70.6	71.0	P/P	51 - 132
Metolachlor	77.7	79.3	F/P	78 - 119
Metribuzin	135	144	P/P	58 - 148
Mevinphos	61.3	61.9	P/P	34 - 128
Molinate	37.0	38.5	F/F	44 - 101
Norflurazon	75.2	78.7	P/P	63 - 129
Parathion Ethyl	83.8	84.2	P/P	80 - 109
Parathion Methyl	92.1	96.1	P/P	74 - 125
Pendimethalin	79.5	81.7	P/P	48 - 134
Phorate	60.4	66.5	P/P	52 - 119
Prometon	72.9	75.3	P/P	69 - 124
Prometryn	69.5	61.6	P/F	66 - 124
Simazine	89.9	93.9	P/P	61 - 134
Terbufos	69.8	77.3	P/P	58 - 115
Terbuthylazine	84.3	85.3	P/P	77 - 113

Reference Method: EPA 8270D
Batch ID: P336701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.0	52.6	P/P	26 - 88.0
Alpha-BHC	94.5	92.0	P/P	63 - 114
Alpha-Chlordane	94.9	96.5	P/P	56 - 117
Beta-BHC	95.3	83.6	P/P	57 - 138
Carbophenothion	76.7	62.9	P/P	36 - 148
Chlorothalonil	110	104	P/P	26 - 173
Cypermethrin	117	108	P/P	42 - 159
DDD-p,p'	94.7	94.5	P/P	62 - 126
DDE-p,p'	93.5	95.9	P/P	53 - 115
DDT-p,p'	103	90.4	P/P	54 - 117
Delta-BHC	110	105	P/P	68 - 158
Dicofol	84.5	85.8	P/P	25 - 114

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P336701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dieldrin	98.5	96.3	P/P	59 - 126
Endosulfan I	99.4	101	P/P	62 - 138
Endosulfan II	101	111	P/P	61 - 150
Endosulfan Sulfate	102	90.7	P/P	63 - 132
Endrin	99.5	111	P/P	49 - 148
Endrin Aldehyde	96.4	88.7	P/P	50 - 144
Endrin Ketone	93.5	86.2	P/P	66 - 122
Gamma-BHC	100	98.3	P/P	60 - 137
Gamma-Chlordane	92.5	92.8	P/P	54 - 113
Heptachlor	84.3	85.2	P/P	43 - 104
Heptachlor Epoxide	94.4	95.1	P/P	64 - 118
Methoxychlor	103	94.4	P/P	63 - 129
Mirex	78.1	78.8	P/P	40 - 96.0
Permethrin	99.5	93.9	P/P	51 - 123
Trifluralin	87.1	79.9	P/P	35 - 187

Reference Method: EPA 8276

Batch ID: P336701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	81.7	80.0	P/P	48 - 121
Toxaphene	103	97.0	P/P	43 - 135

Reference Method: EPA 8321B

Batch ID: P335313

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	124		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P335612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	85.2		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P335618

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	103		P	40 - 150

Reference Method: SM 2320 B-97

Batch ID: P335919

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

Reference Method: SM 4500 F-C-97

Batch ID: P335922

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.3		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P335968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P335388

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	62.2		P	40 - 150
Acetaminophen	91.4		P	30 - 150
Bentazon	36.9		P	30 - 150
Carbamazepine	94.5		P	40 - 150
Diuron	86.1		P	40 - 150
Fenuron	76.5		P	40 - 150
Fluridone	85.7		P	40 - 150
Imidacloprid	77.2		P	40 - 160
Linuron	78.7		P	40 - 150
MCPP	68.2		P	40 - 150
Primidone	70.7		P	40 - 150
Triclopyr	69.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946603	Calcium	96.9		P	80 - 120
1946603	Iron	107		P	80 - 120
1946603	Magnesium	97.7		P	80 - 120
1946603	Potassium	102		P	80 - 120
1946603	Sodium	95.9		P	80 - 120
1946603	Zinc	101		P	80 - 120
1946802	Iron	101	104	P/P	80 - 120
1946802	Magnesium	101	104	P/P	80 - 120
1946802	Potassium	96.5	98.4	P/P	80 - 120
1946802	Sodium	94.7		P	80 - 120
1946802	Zinc	97.5	98.2	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946603	Arsenic	105		P	80 - 120
1946603	Cadmium	107		P	80 - 120
1946603	Chromium	98.8		P	80 - 120
1946603	Copper	100		P	80 - 120
1946603	Lead	102		P	80 - 120
1946603	Nickel	102		P	80 - 120
1946603	Silver	104		P	80 - 120
1946802	Arsenic	106	107	P/P	80 - 120
1946802	Cadmium	108	109	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946802	Chromium	97.6	99.0	P/P	80 - 120
1946802	Copper	99.5	100	P/P	80 - 120
1946802	Lead	102	104	P/P	80 - 120
1946802	Nickel	104	105	P/P	80 - 120
1946802	Silver	106	106	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946673	Chloride	97.6		P	90 - 110
1946675	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335509

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946673	Sulfate	98.2		P	90 - 110
1946675	Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946807	Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946666	Ammonia-N	99.4	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336047

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946898	Kjeldahl Nitrogen	94.5	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947011	Kjeldahl Nitrogen	98.0	92.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947768	Kjeldahl Nitrogen	90.4	97.2	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335898

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946795	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335899

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946920	NO2NO3-N	98.8	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P335877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946919	Total-P	97.8	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946762	O-Phosphate-P	99.0	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946923	O-Phosphate-P	99.0	97.2	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P335622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946969	Acetochlor	79.4	73.2	P/F	74 - 123
1946969	Alachlor	79.6	75.4	P/P	73 - 124
1946969	Ametryn	84.7	73.2	P/P	56 - 149
1946969	Atrazine Desethyl	78.9	68.5	P/P	12 - 103
1946969	Azinphos Methyl	97.3	93.9	P/P	60 - 202
1946969	Butylate	25.0	20.1	P/P	10 - 85.0
1946969	Chlorpyrifos Ethyl	79.3	70.3	P/P	53 - 113
1946969	Chlorpyrifos Methyl	77.8	70.2	P/P	40 - 115
1946969	Cyanazine	182	147	P/P	22 - 210
1946969	Demeton	53.9	47.1	P/P	17 - 149
1946969	Diazinon	71.4	62.4	F/F	72 - 124
1946969	Disulfoton	72.9	64.8	P/P	43 - 139
1946969	EPTC	24.8	21.3	P/P	10 - 86.0
1946969	Ethion	88.0	84.3	P/P	65 - 131
1946969	Ethoprop	71.5	63.0	P/P	59 - 110
1946969	Fenamiphos	81.8	80.5	P/P	57 - 138
1946969	Fipronil	73.0	71.7	P/P	40 - 130
1946969	Fonofos	68.3	62.3	P/P	60 - 112
1946969	Hexazinone	90.4	87.2	P/P	69 - 142
1946969	Malathion	84.8	81.3	P/P	68 - 132
1946969	Metalaxyl	72.5	69.6	P/P	66 - 118
1946969	Metolachlor	81.2	73.7	P/P	71 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P335622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946969	Metribuzin	177	160	F/F	61 - 140
1946969	Mevinphos	51.2	49.4	P/P	38 - 130
1946969	Molinate	32.6	30.3	P/P	23 - 99.0
1946969	Norflurazon	71.2	76.0	P/P	39 - 139
1946969	Parathion Ethyl	82.5	78.1	P/P	75 - 111
1946969	Parathion Methyl	89.1	80.3	P/P	64 - 130
1946969	Pendimethalin	84.0	77.6	P/P	26 - 173
1946969	Phorate	52.5	46.9	P/P	43 - 127
1946969	Prometon	90.2	97.9	P/P	50 - 144
1946969	Prometryn	79.2	74.0	P/P	69 - 126
1946969	Terbufos	70.5	60.5	P/P	54 - 125
1946969	Terbutylazine	85.4	79.5	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P336701

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1952408	Aldrin	62.5	54.3	P/P	22 - 97.0
1952408	Alpha-BHC	95.9	89.9	P/P	43 - 132
1952408	Alpha-Chlordane	91.5	86.1	P/P	36 - 126
1952408	Beta-BHC	100	90.8	P/P	41 - 150
1952408	Carbophenothion	103	92.8	P/P	13 - 196
1952408	Chlorothalonil	29.1	74.0	P/P	10 - 266
1952408	Cypermethrin	107	96.5	P/P	37 - 161
1952408	DDD-p,p'	90.9	87.1	P/P	44 - 131
1952408	DDE-p,p'	86.0	86.9	P/P	32 - 127
1952408	DDT-p,p'	93.2	96.5	P/P	45 - 116
1952408	Delta-BHC	137	118	P/P	50 - 201
1952408	Dicofol	78.4	73.6	P/P	10 - 100
1952408	Dieldrin	105	94.5	P/P	39 - 142
1952408	Endosulfan I	106	96.4	P/P	51 - 139
1952408	Endosulfan II	104	93.4	P/P	49 - 155
1952408	Endosulfan Sulfate	106	91.3	P/P	54 - 136
1952408	Endrin	97.3	84.1	P/P	38 - 141
1952408	Endrin Aldehyde	98.3	91.1	P/P	14 - 152
1952408	Endrin Ketone	93.6	86.9	P/P	60 - 128
1952408	Gamma-BHC	112	104	P/P	48 - 157
1952408	Gamma-Chlordane	88.2	82.8	P/P	35 - 123
1952408	Heptachlor	79.4	77.1	P/P	25 - 112
1952408	Heptachlor Epoxide	96.0	90.1	P/P	48 - 125
1952408	Methoxychlor	98.9	102	P/P	52 - 127
1952408	Mirex	84.0	79.7	P/P	25 - 108
1952408	Permethrin	98.9	92.7	P/P	46 - 133
1952408	Trifluralin	87.5	85.0	P/P	29 - 254

Reference Method: EPA 8276
Batch ID: P336701

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1952440	Chlordane	81.7	79.6	P/P	44 - 134
1952440	Toxaphene	98.2	95.5	P/P	36 - 147

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P335313

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946205	Glyphosate	128	128	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P335612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946205	Pyraclostrobin	86.0	91.6	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P335618

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947129	Sucralose	111	108	P/P	40 - 150

Reference Method: SM 4500 F-C-97
 Batch ID: P335922

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946759	Fluoride	95.8	96.3	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P335968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946807	Organic Carbon	95.3	96.1	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P335388

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946711	2,4-D	35.3	42.2	F/P	40 - 150
1946711	Acetaminophen	54.7	68.1	P/P	30 - 150
1946711	Bentazon	20.8	24.6	F/F	30 - 150
1946711	Carbamazepine	79.4	99.6	P/P	40 - 150
1946711	Diuron	54.9	72.3	P/P	40 - 150
1946711	Fenuron	62.8	73.2	P/P	40 - 150
1946711	Fluridone	70.6	83.1	P/P	40 - 150
1946711	Imidacloprid	92.0	119	P/P	40 - 160
1946711	Linuron	69.8	86.2	P/P	40 - 150
1946711	MCP	44.5	52.2	P/P	40 - 150
1946711	Primidone	64.2	93.5	P/P	40 - 150
1946711	Triclopyr	46.2	54.4	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P335461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P335461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946895	Turbidity	6.21	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P335462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946927	Turbidity	2.92	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946802	Calcium	0.531	Spike	P	0 - 20
1946802	Iron	1.54	Spike	P	0 - 20
1946802	Magnesium	1.58	Spike	P	0 - 20
1946802	Potassium	1.42	Spike	P	0 - 20
1946802	Sodium	0.177	Spike	P	0 - 20
1946802	Zinc	0.734	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946802	Arsenic	1.19	Spike	P	0 - 20
1946802	Cadmium	1.41	Spike	P	0 - 20
1946802	Chromium	1.40	Spike	P	0 - 20
1946802	Copper	0.793	Spike	P	0 - 20
1946802	Lead	1.05	Spike	P	0 - 20
1946802	Nickel	0.816	Spike	P	0 - 20
1946802	Silver	0.0716	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946675	Chloride	0.388	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335509

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946675	Sulfate	0.527	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946807	Ammonia-N	0.259	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336279

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946666	Ammonia-N	1.58	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946898	Kjeldahl Nitrogen	2.65	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947011	Kjeldahl Nitrogen	4.09	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947768	Kjeldahl Nitrogen	6.11	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946795	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335899

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946920	NO2NO3-N	0.445	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P335877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946919	Total-P	0.100	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P335879

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946928	Total-P	1.75	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P335476

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946762	O-Phosphate-P	2.72	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P335481

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946923	O-Phosphate-P	1.83	Spike	P	0 - 20

Reference Method: EPA 8270D

Batch ID: P335622

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946969	Acetochlor	8.13	Spike	P	0 - 30
1946969	Alachlor	5.49	Spike	P	0 - 30
1946969	Ametryn	14.5	Spike	P	0 - 30
1946969	Atrazine	6.04	Spike	P	0 - 30
1946969	Atrazine Desethyl	11.6	Spike	P	0 - 30
1946969	Azinphos Methyl	3.53	Spike	P	0 - 30
1946969	Bromacil	4.05	Spike	P	0 - 30
1946969	Butylate	21.4	Spike	P	0 - 30
1946969	Chlorpyrifos Ethyl	12.0	Spike	P	0 - 30
1946969	Chlorpyrifos Methyl	10.2	Spike	P	0 - 30
1946969	Cyanazine	21.0	Spike	P	0 - 30
1946969	Demeton	13.4	Spike	P	0 - 30
1946969	Diazinon	13.5	Spike	P	0 - 30
1946969	Disulfoton	11.8	Spike	P	0 - 30
1946969	EPTC	15.3	Spike	P	0 - 30
1946969	Ethion	4.20	Spike	P	0 - 30
1946969	Ethoprop	12.5	Spike	P	0 - 30
1946969	Fenamiphos	1.63	Spike	P	0 - 30
1946969	Fipronil	1.27	Spike	P	0 - 30
1946969	Fipronil Sulfide	6.87	Spike	P	0 - 30
1946969	Fipronil Sulfone	7.01	Spike	P	0 - 30
1946969	Fonofos	9.16	Spike	P	0 - 30
1946969	Hexazinone	3.57	Spike	P	0 - 30
1946969	Malathion	4.30	Spike	P	0 - 30
1946969	Metalaxyl	4.04	Spike	P	0 - 30
1946969	Metolachlor	9.62	Spike	P	0 - 30
1946969	Metribuzin	10.2	Spike	P	0 - 30
1946969	Mevinphos	3.52	Spike	P	0 - 30
1946969	Molinate	7.23	Spike	P	0 - 30
1946969	Norflurazon	6.57	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P335622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946969	Parathion Ethyl	5.43	Spike	P	0 - 30
1946969	Parathion Methyl	10.4	Spike	P	0 - 30
1946969	Pendimethalin	7.95	Spike	P	0 - 30
1946969	Phorate	11.3	Spike	P	0 - 30
1946969	Prometon	8.21	Spike	P	0 - 30
1946969	Prometryn	6.81	Spike	P	0 - 30
1946969	Simazine	6.90	Spike	P	0 - 30
1946969	Terbufos	15.3	Spike	P	0 - 30
1946969	Terbuthylazine	7.06	Spike	P	0 - 30
LFB	Acetochlor	1.44	LCS	P	0 - 30
LFB	Alachlor	2.42	LCS	P	0 - 30
LFB	Ametryn	9.34	LCS	P	0 - 30
LFB	Atrazine	5.79	LCS	P	0 - 30
LFB	Atrazine Desethyl	3.16	LCS	P	0 - 30
LFB	Azinphos Methyl	4.48	LCS	P	0 - 30
LFB	Bromacil	0.0359	LCS	P	0 - 30
LFB	Butylate	0.0994	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.50	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.89	LCS	P	0 - 30
LFB	Cyanazine	2.20	LCS	P	0 - 30
LFB	Demeton	39.6	LCS	F	0 - 30
LFB	Diazinon	0.0995	LCS	P	0 - 30
LFB	Disulfoton	36.3	LCS	F	0 - 30
LFB	EPTC	8.23	LCS	P	0 - 30
LFB	Ethion	13.7	LCS	P	0 - 30
LFB	Ethoprop	0.608	LCS	P	0 - 30
LFB	Fenamiphos	9.38	LCS	P	0 - 30
LFB	Fipronil	3.51	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.38	LCS	P	0 - 30
LFB	Fipronil Sulfone	2.75	LCS	P	0 - 30
LFB	Fonofos	1.79	LCS	P	0 - 30
LFB	Hexazinone	1.56	LCS	P	0 - 30
LFB	Malathion	2.73	LCS	P	0 - 30
LFB	Metalaxyl	0.476	LCS	P	0 - 30
LFB	Metolachlor	2.01	LCS	P	0 - 30
LFB	Metribuzin	6.31	LCS	P	0 - 30
LFB	Mevinphos	0.974	LCS	P	0 - 30
LFB	Molinate	3.79	LCS	P	0 - 30
LFB	Norflurazon	4.55	LCS	P	0 - 30
LFB	Parathion Ethyl	0.491	LCS	P	0 - 30
LFB	Parathion Methyl	4.27	LCS	P	0 - 30
LFB	Pendimethalin	2.78	LCS	P	0 - 30
LFB	Phorate	9.63	LCS	P	0 - 30
LFB	Prometon	3.20	LCS	P	0 - 30
LFB	Prometryn	12.0	LCS	P	0 - 30
LFB	Simazine	4.36	LCS	P	0 - 30
LFB	Terbufos	10.2	LCS	P	0 - 30
LFB	Terbuthylazine	1.17	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P336701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1952408	Aldrin	13.9	Spike	P	0 - 30
1952408	Alpha-BHC	6.48	Spike	P	0 - 30
1952408	Alpha-Chlordane	5.16	Spike	P	0 - 30
1952408	Beta-BHC	9.63	Spike	P	0 - 30
1952408	Carbophenothion	10.2	Spike	P	0 - 30
1952408	Chlorothalonil	87.1	Spike	F	0 - 30
1952408	Cypermethrin	10.2	Spike	P	0 - 30
1952408	DDD-p,p'	4.27	Spike	P	0 - 30
1952408	DDE-p,p'	0.999	Spike	P	0 - 30
1952408	DDT-p,p'	3.55	Spike	P	0 - 30
1952408	Delta-BHC	15.2	Spike	P	0 - 30
1952408	Dicofol	6.35	Spike	P	0 - 30
1952408	Dieldrin	10.1	Spike	P	0 - 30
1952408	Endosulfan I	9.43	Spike	P	0 - 30
1952408	Endosulfan II	10.5	Spike	P	0 - 30
1952408	Endosulfan Sulfate	14.6	Spike	P	0 - 30
1952408	Endrin	14.5	Spike	P	0 - 30
1952408	Endrin Aldehyde	7.63	Spike	P	0 - 30
1952408	Endrin Ketone	7.38	Spike	P	0 - 30
1952408	Gamma-BHC	6.58	Spike	P	0 - 30
1952408	Gamma-Chlordane	5.71	Spike	P	0 - 30
1952408	Heptachlor	3.04	Spike	P	0 - 30
1952408	Heptachlor Epoxide	6.39	Spike	P	0 - 30
1952408	Methoxychlor	2.70	Spike	P	0 - 30
1952408	Mirex	5.25	Spike	P	0 - 30
1952408	Permethrin	6.52	Spike	P	0 - 30
1952408	Trifluralin	2.88	Spike	P	0 - 30
LFB	Aldrin	1.20	LCS	P	0 - 30
LFB	Alpha-BHC	2.67	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.63	LCS	P	0 - 30
LFB	Beta-BHC	13.1	LCS	P	0 - 30
LFB	Carbophenothion	19.8	LCS	P	0 - 30
LFB	Chlorothalonil	5.63	LCS	P	0 - 30
LFB	Cypermethrin	7.87	LCS	P	0 - 30
LFB	DDD-p,p'	0.173	LCS	P	0 - 30
LFB	DDE-p,p'	2.50	LCS	P	0 - 30
LFB	DDT-p,p'	12.9	LCS	P	0 - 30
LFB	Delta-BHC	3.93	LCS	P	0 - 30
LFB	Dicofol	1.55	LCS	P	0 - 30
LFB	Dieldrin	2.26	LCS	P	0 - 30
LFB	Endosulfan I	1.80	LCS	P	0 - 30
LFB	Endosulfan II	9.64	LCS	P	0 - 30
LFB	Endosulfan Sulfate	12.1	LCS	P	0 - 30
LFB	Endrin	11.3	LCS	P	0 - 30
LFB	Endrin Aldehyde	8.39	LCS	P	0 - 30
LFB	Endrin Ketone	8.15	LCS	P	0 - 30
LFB	Gamma-BHC	2.05	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.355	LCS	P	0 - 30
LFB	Heptachlor	1.03	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.781	LCS	P	0 - 30
LFB	Methoxychlor	8.60	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P336701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	0.822	LCS	P	0 - 30
LFB	Permethrin	5.78	LCS	P	0 - 30
LFB	Trifluralin	8.62	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P336701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1952440	Chlordane	2.55	Spike	P	0 - 30
1952440	Toxaphene	2.79	Spike	P	0 - 30
LFB	Chlordane	2.05	LCS	P	0 - 30
LFB	Toxaphene	6.10	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946205	Glyphosate	0.234	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946205	Pyraclostrobin	6.31	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947129	Sucralose	2.46	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P335471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946915	Color (true)	3.25	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P335484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946671	Color (true)	1.30	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P335919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946759	Total Alkalinity	0.455	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P335955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946992	TDS	4.24	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P335922

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946759	Fluoride	0.487	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P335968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946807	Organic Carbon	0.504	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P335388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946711	2,4-D	17.8	Spike	P	0 - 30
1946711	Acetaminophen	21.8	Spike	P	0 - 30
1946711	Bentazon	17.1	Spike	P	0 - 30
1946711	Carbamazepine	22.4	Spike	P	0 - 30
1946711	Diuron	27.4	Spike	P	0 - 30
1946711	Fenuron	15.4	Spike	P	0 - 30
1946711	Fluridone	16.2	Spike	P	0 - 30
1946711	Imidacloprid	25.3	Spike	P	0 - 30
1946711	Linuron	21.0	Spike	P	0 - 30
1946711	MCPP	15.9	Spike	P	0 - 30
1946711	Primidone	37.2	Spike	F	0 - 30
1946711	Triclopyr	16.3	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

Quality Assurance Report Surrogates

Lab Sample ID: 1946958
Field Sample ID: G1NE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	93.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.8	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Diuron-d6	62.4	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Diuron-d6	62.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	129	P	40 - 160
EPA 8321B	Primidone-d5	90.3	P	30 - 160
EPA 8321B	Primidone-d5	90.3	P	30 - 160
EPA 8321B	Sucralose-d6	136	P	40 - 160
EPA 8321B	Sucralose-d6	136	P	40 - 160
USGS O-2060-01	2,4-D-d3	42.6	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	93.8	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	89.8	P	30 - 160
USGS O-2060-01	Diuron-d6	100	P	30 - 160
USGS O-2060-01	Diuron-d6	62.4	P	30 - 160
USGS O-2060-01	Primidone-d5	90.3	P	30 - 160
USGS O-2060-01	Sucralose-d6	136	P	40 - 160

Lab Sample ID: 1946959
Field Sample ID: G1NE0557

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	91.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.8	P	30 - 160
EPA 8321B	Diuron-d6	59.4	P	30 - 160
EPA 8321B	Primidone-d5	80.9	P	30 - 160
EPA 8321B	Sucralose-d6	130	P	40 - 160
USGS O-2060-01	2,4-D-d3	41.5	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	91.8	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	89.8	P	30 - 160
USGS O-2060-01	Diuron-d6	59.4	P	30 - 160
USGS O-2060-01	Primidone-d5	80.9	P	30 - 160
USGS O-2060-01	Sucralose-d6	130	P	40 - 160

Lab Sample ID: 1946960
Field Sample ID: G1NE0591

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.3	P	30 - 160
EPA 8321B	Diuron-d6	47.9	P	30 - 160
EPA 8321B	Primidone-d5	60.6	P	30 - 160
EPA 8321B	Sucralose-d6	123	P	40 - 160
USGS O-2060-01	2,4-D-d3	38.1	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	113	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	67.3	P	30 - 160
USGS O-2060-01	Diuron-d6	47.9	P	30 - 160
USGS O-2060-01	Primidone-d5	60.6	P	30 - 160
USGS O-2060-01	Sucralose-d6	123	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1946961
Field Sample ID: G1NE0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	96.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.9	P	30 - 160
EPA 8321B	Diuron-d6	48.5	P	30 - 160
EPA 8321B	Primidone-d5	62.1	P	30 - 160
EPA 8321B	Sucralose-d6	129	P	40 - 160
USGS O-2060-01	2,4-D-d3	37.2	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	96.1	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	65.9	P	30 - 160
USGS O-2060-01	Diuron-d6	48.5	P	30 - 160
USGS O-2060-01	Primidone-d5	62.1	P	30 - 160
USGS O-2060-01	Sucralose-d6	129	P	40 - 160

Lab Sample ID: 1946962
Field Sample ID: G1NE0568

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	87.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.2	P	30 - 160
EPA 8321B	Diuron-d6	48.6	P	30 - 160
EPA 8321B	Primidone-d5	69.7	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	40 - 160
USGS O-2060-01	2,4-D-d3	40.9	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	87.8	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	72.2	P	30 - 160
USGS O-2060-01	Diuron-d6	48.6	P	30 - 160
USGS O-2060-01	Primidone-d5	69.7	P	30 - 160
USGS O-2060-01	Sucralose-d6	114	P	40 - 160

Lab Sample ID: 1946963
Field Sample ID: 2002002FLA

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	83.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.5	P	30 - 160
EPA 8321B	Diuron-d6	67.3	P	30 - 160
EPA 8321B	Primidone-d5	83.4	P	30 - 160
EPA 8321B	Sucralose-d6	156	P	40 - 160
USGS O-2060-01	2,4-D-d3	39.8	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	83.8	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	92.5	P	30 - 160
USGS O-2060-01	Diuron-d6	67.3	P	30 - 160
USGS O-2060-01	Primidone-d5	83.4	P	30 - 160
USGS O-2060-01	Sucralose-d6	156	P	40 - 160

Lab Sample ID: 1946968
Field Sample ID: G1NE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	85.8	P	39 - 118
EPA 8270D	Decachlorobiphenyl	80.5	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	67.7	P	32 - 103
EPA 8270D	Tetrachloro-m-xylene	67.1	P	32 - 103

Quality Assurance Report Surrogates

Lab Sample ID: 1946968
Field Sample ID: G1NE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	73.8	P	31 - 100
EPA 8276	Decachlorobiphenyl	75.1	P	31 - 100

Lab Sample ID: 1946969
Field Sample ID: G1NE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	86.2	P	53 - 135
EPA 8270D	Simazine-d10	87.2	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A80230
Included Lab Sample IDs: 1946915, 1946916, 1946917, 1946918, 1946927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Chloride	101	100	P/P	90 - 110
Sulfate	100	99.9	P/P	90 - 110
Sulfate	99.9	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A80322
Included Lab Sample IDs: 1946915, 1946916, 1946917, 1946918, 1946927

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

Reference Method: SM 2120 B
Run ID: A80323
Included Lab Sample IDs: 1946915, 1946927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	105	108	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A80325
Included Lab Sample IDs: 1946923, 1946924, 1946925, 1946926, 1946929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	103	P/P	90 - 110
O-Phosphate-P	102	102	P/P	90 - 110
O-Phosphate-P	103	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A80326

Included Lab Sample IDs: 1946916, 1946917, 1946918

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	105	107	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A80410

Included Lab Sample IDs: 1946958

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	104	106	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A80412

Included Lab Sample IDs: 1946958

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	105	106	P/P	70 - 160

Reference Method: USGS O-2060-01

Run ID: A80485

Included Lab Sample IDs: 1946958, 1946959, 1946960, 1946961, 1946962, 1946963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	74.3	80.2	P/P	50 - 150
2,4-D	75.7	74.3	P/P	50 - 150
Acetaminophen	71.9	87.5	P/P	60 - 150
Acetaminophen	87.5	89.4	P/P	60 - 150
Bentazon	109	110	P/P	50 - 150
Bentazon	99.6	109	P/P	50 - 150
Carbamazepine	102	106	P/P	60 - 150
Carbamazepine	90.9	102	P/P	60 - 150
Diuron	69.9	89.2	P/P	60 - 150
Diuron	89.2	80.0	P/P	60 - 150
Fenuron	73.2	86.1	P/P	60 - 150
Fenuron	86.1	82.2	P/P	60 - 150
Fluridone	108	105	P/P	60 - 160
Fluridone	90.5	108	P/P	60 - 160
Imidacloprid	67.9	77.8	P/P	60 - 150
Imidacloprid	77.8	76.8	P/P	60 - 150
Linuron	74.8	99.2	P/P	60 - 150
Linuron	99.2	96.7	P/P	60 - 150
MCP	79.6	90.3	P/P	50 - 150
MCP	90.3	82.0	P/P	50 - 150
Primidone	66.0	78.0	P/P	60 - 150
Primidone	78.0	74.2	P/P	60 - 150
Triclopyr	81.4	86.6	P/P	50 - 160
Triclopyr	86.6	83.7	P/P	50 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A80491

Included Lab Sample IDs: 1946970

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A80491

Included Lab Sample IDs: 1946970

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	102	P/P	90 - 110
Iron	102	101	P/P	90 - 110
Magnesium	101	100	P/P	90 - 110
Potassium	99.8	98.5	P/P	90 - 110
Sodium	99.1	98.6	P/P	90 - 110
Zinc	101	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A80516

Included Lab Sample IDs: 1946919, 1946920, 1946921, 1946922, 1946928

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

Reference Method: SM 2320 B-97

Run ID: A80534

Included Lab Sample IDs: 1946915, 1946916, 1946917, 1946918, 1946927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.2	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A80534

Included Lab Sample IDs: 1946915, 1946916, 1946917, 1946918, 1946927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	98.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A80535

Included Lab Sample IDs: 1946970

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	97.7	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A80536

Included Lab Sample IDs: 1946958, 1946961, 1946963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	73.2	73.8	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A80538

Included Lab Sample IDs: 1946920, 1946921, 1946922, 1946928

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A80544

Included Lab Sample IDs: 1946919, 1946920, 1946921, 1946922, 1946928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	96.4	P/P	90 - 110
Organic Carbon	98.2	96.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A80548

Included Lab Sample IDs: 1946919

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

Reference Method: EPA 8321B

Run ID: A80568

Included Lab Sample IDs: 1946959, 1946960, 1946962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	101	128	P/P	60 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A80570

Included Lab Sample IDs: 1946970

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	102	102	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Copper	102	104	P/P	90 - 110
Lead	100	101	P/P	90 - 110
Nickel	102	105	P/P	90 - 110
Silver	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80614

Included Lab Sample IDs: 1946919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.9	98.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A80627

Included Lab Sample IDs: 1946919

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A80655

Included Lab Sample IDs: 1946920, 1946921, 1946922, 1946928

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80675

Included Lab Sample IDs: 1946921, 1946928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.2	98.0	P/P	90 - 110
Kjeldahl Nitrogen	91.7	90.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80724

Included Lab Sample IDs: 1946920, 1946922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.9	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A80805

Included Lab Sample IDs: 1946969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	93.9		P	80 - 120
Atrazine Desethyl	94.8		P	80 - 120
Azinphos Methyl	92.6		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	98.8		P	80 - 120
Chlorpyrifos Ethyl	98.7		P	80 - 120
Chlorpyrifos Methyl	98.0		P	80 - 120
Cyanazine	90.9		P	80 - 120
Demeton	95.0		P	80 - 120
Diazinon	96.1		P	80 - 120
Disulfoton	97.9		P	80 - 120
EPTC	103		P	80 - 120
Ethion	94.9		P	80 - 120
Ethoprop	102		P	80 - 120
Fenamiphos	94.9		P	80 - 120
Fipronil	99.8		P	80 - 120
Fipronil Sulfide	85.5		P	80 - 120
Fipronil Sulfone	96.9		P	80 - 120
Fonofos	96.0		P	80 - 120
Hexazinone	93.4		P	80 - 120
Malathion	95.7		P	80 - 120
Metaxyl	102		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	86.7		P	80 - 120
Mevinphos	97.0		P	80 - 120
Molinate	95.3		P	80 - 120
Norflurazon	98.0		P	80 - 120
Parathion Ethyl	91.5		P	80 - 120
Parathion Methyl	91.7		P	80 - 120
Pendimethalin	87.8		P	80 - 120
Phorate	94.8		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
 Run ID: A80805
 Included Lab Sample IDs: 1946969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Simazine	94.3		P	80 - 120
Terbufos	96.0		P	80 - 120
Terbutylazine	97.8		P	80 - 120

Reference Method: EPA 8270D
 Run ID: A81024
 Included Lab Sample IDs: 1946968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	104		P	80 - 120
Carbophenothion	95.5		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cypermethrin	88.9		P	80 - 120
DDD-p,p'	108		P	80 - 120
DDE-p,p'	105		P	80 - 120
DDT-p,p'	105		P	80 - 120
Delta-BHC	103		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	99.4		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	98.2		P	80 - 120
Gamma-BHC	96.4		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Methoxychlor	105		P	80 - 120
Mirex	102		P	80 - 120
Permethrin	92.9		P	80 - 120
Trifluralin	99.0		P	80 - 120

Reference Method: EPA 8276
 Run ID: A81076
 Included Lab Sample IDs: 1946968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	109		P	80 - 120
Toxaphene	105		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision	
							LCS	SMP MS
EPA 180.1 Rev. 2.0	Turbidity							6.21
	Turbidity							2.92
EPA 200.7 Rev. 4.4	Calcium	104		96.9				0.531
	Iron	108		107	101	104		1.54
	Magnesium	110		97.7	101	104		1.58
	Potassium	102		102	96.5	98.4		1.42
	Sodium	99.8		95.9	94.7			0.177
	Zinc	104		101	97.5	98.2		0.734
EPA 200.8 Rev. 5.4	Arsenic	104		105	106	107		1.19
	Cadmium	107		107	108	109		1.41
	Chromium	101		98.8	97.6	99.0		1.40
	Copper	102		100	99.5	100		0.793
	Lead	102		102	102	104		1.05
	Nickel	103		102	104	105		0.816
	Silver	106		104	106	106		0.0716
EPA 300.0 Rev. 2.1	Chloride	97.8		95.8	97.6			0.388
	Sulfate	98.7		97.0	98.2			0.527
EPA 350.1 Rev. 2.0	Ammonia-N	103		103	103			0.259
	Ammonia-N	99.0		99.4	101			1.58
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	91.8		94.5	98.9			2.65
	Kjeldahl Nitrogen	102		98.0	92.5			4.09
	Kjeldahl Nitrogen	109		90.4	97.2			6.11
EPA 353.2 Rev. 2.0	NO2NO3-N	104		106	106			0.0
	NO2NO3-N	104		98.8	98.3			0.445
EPA 365.1 Rev. 2.0	Total-P	103		97.8	97.8			0.100
	Total-P	101						1.75
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	107		99.0	95.8			2.72
	O-Phosphate-P	101		99.0	97.2			1.83
EPA 8270D	Acetochlor	76.2	77.3	79.4	73.2	1.44		8.13
	Alachlor	77.1	78.9	79.6	75.4	2.42		5.49
	Aldrin	52.0	52.6	62.5	54.3	1.20		13.9
	Alpha-BHC	94.5	92.0	95.9	89.9	2.67		6.48
	Alpha-Chlordane	94.9	96.5	91.5	86.1	1.63		5.16
	Ametryn	61.9	56.4	84.7	73.2	9.34		14.5
	Atrazine	78.1	82.8			5.79		6.04
	Atrazine Desethyl	99.9	103	78.9	68.5	3.16		11.6
	Azinphos Methyl	118	113	97.3	93.9	4.48		3.53
	Beta-BHC	95.3	83.6	100	90.8	13.1		9.63
	Bromacil	81.9	81.9			0.0359		4.05
	Butylate	35.9	35.8	25.0	20.1	0.0994		21.4
	Carbophenothion	76.7	62.9	103	92.8	19.8		10.2
	Chlorothalonil	110	104	29.1	74.0	5.63		87.1
	Chlorpyrifos Ethyl	82.9	80.8	79.3	70.3	2.50		12.0
	Chlorpyrifos Methyl	86.5	84.9	77.8	70.2	1.89		10.2
	Cyanazine	260	265	182	147	2.20		21.0
	Cypermethrin	117	108	107	96.5	7.87		10.2
	DDD-p,p'	94.7	94.5	90.9	87.1	0.173		4.27
	DDE-p,p'	93.5	95.9	86.0	86.9	2.50		0.999
	DDT-p,p'	103	90.4	93.2	96.5	12.9		3.55
	Delta-BHC	110	105	137	118	3.93		15.2
	Demeton	44.5	66.6	53.9	47.1	39.6		13.4
	Diazinon	72.9	72.8	71.4	62.4	0.0995		13.5
	Dicofol	84.5	85.8	78.4	73.6	1.55		6.35
	Dieldrin	98.5	96.3	105	94.5	2.26		10.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Disulfoton	58.2	84.0	72.9	64.8	36.3	11.8
	Endosulfan I	99.4	101	106	96.4	1.80	9.43
	Endosulfan II	101	111	104	93.4	9.64	10.5
	Endosulfan Sulfate	102	90.7	106	91.3	12.1	14.6
	Endrin	99.5	111	97.3	84.1	11.3	14.5
	Endrin Aldehyde	96.4	88.7	98.3	91.1	8.39	7.63
	Endrin Ketone	93.5	86.2	93.6	86.9	8.15	7.38
	EPTC	31.5	34.2	24.8	21.3	8.23	15.3
	Ethion	75.1	86.1	88.0	84.3	13.7	4.20
	Ethoprop	77.2	76.7	71.5	63.0	0.608	12.5
	Fenamiphos	80.4	88.3	81.8	80.5	9.38	1.63
	Fipronil	76.6	79.3	73.0	71.7	3.51	1.27
	Fipronil Sulfide	71.9	73.6			2.38	6.87
	Fipronil Sulfone	75.6	77.7			2.75	7.01
	Fonofos	79.8	81.3	68.3	62.3	1.79	9.16
	Gamma-BHC	100	98.3	112	104	2.05	6.58
	Gamma-Chlordane	92.5	92.8	88.2	82.8	0.355	5.71
	Heptachlor	84.3	85.2	79.4	77.1	1.03	3.04
	Heptachlor Epoxide	94.4	95.1	96.0	90.1	0.781	6.39
	Hexazinone	76.8	78.0	90.4	87.2	1.56	3.57
	Malathion	86.0	88.3	84.8	81.3	2.73	4.30
	Metalaxyl	70.6	71.0	72.5	69.6	0.476	4.04
	Methoxychlor	103	94.4	98.9	102	8.60	2.70
	Metolachlor	77.7	79.3	81.2	73.7	2.01	9.62
	Metribuzin	135	144	177	160	6.31	10.2
	Mevinphos	61.3	61.9	51.2	49.4	0.974	3.52
	Mirex	78.1	78.8	84.0	79.7	0.822	5.25
	Molinate	37.0	38.5	32.6	30.3	3.79	7.23
	Norflurazon	75.2	78.7	71.2	76.0	4.55	6.57
	Parathion Ethyl	83.8	84.2	82.5	78.1	0.491	5.43
	Parathion Methyl	92.1	96.1	89.1	80.3	4.27	10.4
	Pendimethalin	79.5	81.7	84.0	77.6	2.78	7.95
	Permethrin	99.5	93.9	98.9	92.7	5.78	6.52
	Phorate	60.4	66.5	52.5	46.9	9.63	11.3
	Prometon	72.9	75.3	90.2	97.9	3.20	8.21
	Prometryn	69.5	61.6	79.2	74.0	12.0	6.81
	Simazine	89.9	93.9			4.36	6.90
	Terbufos	69.8	77.3	70.5	60.5	10.2	15.3
	Terbuthylazine	84.3	85.3	85.4	79.5	1.17	7.06
	Trifluralin	87.1	79.9	87.5	85.0	8.62	2.88
EPA 8276	Chlordane	81.7	80.0	81.7	79.6	2.05	2.55
	Toxaphene	103	97.0	98.2	95.5	6.10	2.79
EPA 8321B	Glyphosate	124		128	128		0.234
	Pyraclostrobin	85.2		86.0	91.6		6.31
	Sucralose	103		111	108		2.46
SM 2120 B	Color (true)					3.25	
	Color (true)					1.30	
SM 2320 B-97	Total Alkalinity	103				0.455	
SM 2540 C-97	TDS					4.24	
SM 4500 F-C-97	Fluoride	94.3		95.8	96.3		0.487
SM 5310 B-00	Organic Carbon	97.0		95.3	96.1		0.504
USGS O-2060-01	2,4-D	62.2		35.3	42.2		17.8
	Acetaminophen	91.4		54.7	68.1		21.8
	Bentazon	36.9		20.8	24.6		17.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	Carbamazepine	94.5	79.4	99.6		22.4
	Diuron	86.1	54.9	72.3		27.4
	Fenuron	76.5	62.8	73.2		15.4
	Fluridone	85.7	70.6	83.1		16.2
	Imidacloprid	77.2	92.0	119		25.3
	Linuron	78.7	69.8	86.2		21.0
	MCPP	68.2	44.5	52.2		15.9
	Primidone	70.7	64.2	93.5		37.2
	Triclopyr	69.0	46.2	54.4		16.3

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1946915, 1946916, 1946917, 1946918, 1946927
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1946970
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1946970
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1946915, 1946916, 1946917, 1946918, 1946927
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1946915, 1946916, 1946917, 1946918, 1946927
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1946919, 1946920, 1946921, 1946922, 1946928
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1946919, 1946920, 1946921, 1946922, 1946928
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1946919, 1946920, 1946921, 1946922, 1946928
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1946919, 1946920, 1946921, 1946922, 1946928
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1946923, 1946924, 1946925, 1946926, 1946929
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1946968
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1946969
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1946968
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1946958, 1946959, 1946960, 1946961, 1946962, 1946963
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1946958
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1946958
SM 2120 B / E31780	True Color measured at 450 nm	1946915, 1946916, 1946917, 1946918, 1946927
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1946915, 1946916, 1946917, 1946918, 1946927
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1946915, 1946916, 1946917, 1946918, 1946927
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1946915, 1946916, 1946917, 1946918, 1946927
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1946915, 1946916, 1946917, 1946918, 1946927
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1946919, 1946920, 1946921, 1946922, 1946928
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1946958, 1946959, 1946960, 1946961, 1946962, 1946963
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1946958, 1946959, 1946960, 1946961, 1946962, 1946963

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	11/16/2017			11/16/2017 16:18	DeAsia Armster	1946915, 1946916, 1946917, 1946918, 1946927
EPA 200.7 Rev. 4.4	11/16/2017	11/21/2017	Elliott D. Healy	11/22/2017	Betina Topolski	1946970
EPA 200.8 Rev. 5.4	11/16/2017	11/21/2017	Elliott D. Healy	11/27/2017	Nadine Brooks	1946970
EPA 300.0 Rev. 2.1	11/16/2017			11/17/2017	Julia Storbeck	1946915, 1946916, 1946917, 1946918, 1946927
EPA 350.1 Rev. 2.0	11/16/2017			11/30/2017	Sofia Elnemr	1946919
	11/16/2017			12/01/2017	Sofia Elnemr	1946920, 1946921, 1946922, 1946928
EPA 351.2 Rev. 2.0	11/16/2017	11/29/2017	Adrian Shelby	11/30/2017	Joseph Suarez	1946919
	11/16/2017	11/29/2017	Adrian Shelby	12/04/2017	Tanya Welborn	1946921, 1946928
	11/16/2017	12/04/2017	Adrian Shelby	12/05/2017	Joseph Suarez	1946920, 1946922
EPA 353.2 Rev. 2.0	11/16/2017			11/27/2017	Beverly Y. Sanders	1946919, 1946920, 1946921, 1946922, 1946928
EPA 365.1 Rev. 2.0	11/16/2017	11/27/2017	Sima Feizi	11/28/2017	Lipi Saha	1946919, 1946920, 1946921, 1946922, 1946928
EPA 365.1 Rev. 2.0 dissolved	11/16/2017			11/16/2017 14:34	Megan Treadwell	1946923
	11/16/2017			11/16/2017 15:07	Megan Treadwell	1946924
	11/16/2017			11/16/2017 15:12	Megan Treadwell	1946925
	11/16/2017			11/16/2017 15:13	Megan Treadwell	1946926
	11/16/2017			11/16/2017 15:14	Megan Treadwell	1946929
EPA 8270D	11/16/2017	11/20/2017	John Kaba	11/28/2017	Marek Topolski	1946969
	11/16/2017	12/11/2017	John Kaba	12/14/2017	Goutam Palui	1946968
EPA 8276	11/16/2017	12/11/2017	John Kaba	12/21/2017	John P. Burgos	1946968
EPA 8321B	11/16/2017	11/20/2017	Mohammad Ghaffari	11/20/2017	Mohammad Ghaffari	1946958
	11/16/2017	11/22/2017	Mohammad Ghaffari	11/24/2017	Mohammad Ghaffari	1946958, 1946961, 1946963
	11/16/2017	11/22/2017	Mohammad Ghaffari	11/29/2017	Mohammad Ghaffari	1946959, 1946960, 1946962
SM 2120 B	11/16/2017			11/16/2017 15:58	Tanya Welborn	1946915
	11/16/2017			11/16/2017 16:01	Tanya Welborn	1946927
	11/16/2017			11/16/2017 17:07	Tanya Welborn	1946916
	11/16/2017			11/16/2017 17:08	Tanya Welborn	1946917, 1946918
SM 2320 B-97	11/16/2017			11/28/2017	Dale L. Simmons	1946915, 1946916, 1946917, 1946918, 1946927
SM 2540 C-97	11/16/2017			11/17/2017	DeAsia Armster	1946915, 1946916, 1946917, 1946918, 1946927
SM 2540 D-97	11/16/2017			11/17/2017	DeAsia Armster	1946915, 1946916, 1946917, 1946918, 1946927
SM 4500 F-C-97	11/16/2017			11/28/2017	Dale L. Simmons	1946915, 1946916, 1946917, 1946918, 1946927
SM 5310 B-00	11/16/2017			11/28/2017	Ping Hua	1946919, 1946920, 1946921, 1946922, 1946928
USGS O-2060-01	11/16/2017	11/20/2017	Hoor Shaik	11/22/2017	Mohammad Ghaffari	1946958, 1946959, 1946960, 1946961, 1946962, 1946963