

Chemical Analysis Report

SO-DIST-2017-10-19-01

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

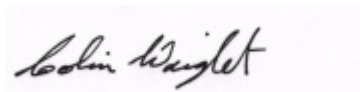
Event Description: **Sarasota Streams**
Request ID: **RQ-2017-09-18-28**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Ben Paswater

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 01-DEC-2017 10:49



NON-CONFORMANCE REPORT INCLUDED

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: Indian Creek @ Fruitville Rd.

Collection Date/Time: 10/18/2017 10:55

Field ID: G2SD101817-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938656	EPA 180.1 Rev. 2.0	Turbidity	9.1		NTU	P333721	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P333837	
		Sulfate	80		mg SO4/L	P333841	
	SM 2120 B	Color (true)	84	A	PCU	P333747	
	SM 2320 B-97	Total Alkalinity	51		mg CaCO3/L	P333927	
	SM 2540 C-97	TDS	209		mg/L	P334315	
	SM 2540 D-97	TSS	2	I	mg/L	P334527	
	SM 4500 F-C-97	Fluoride	0.52		mg F/L	P333928	
1938659	EPA 350.1 Rev. 2.0	Ammonia-N	0.096		mg N/L	P334091	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P334069	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P334097	
	EPA 365.1 Rev. 2.0	Total-P	0.70		mg P/L	P334041	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P334348	
1938662	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.47		mg P/L	P333756	
1938692	EPA 200.7 Rev. 4.4	Calcium	34.4		mg/L	P333931	
		Iron	1.90E+03		ug/L	P333931	
		Magnesium	14.4		mg/L	P333931	
		Potassium	3.4		mg/L	P333931	
		Sodium	12.6		mg/L	P333931	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P333931	
		Arsenic	1.38		ug/L	P333931	
		Cadmium	0.020	U	ug/L	P333931	
		Chromium	1.1	I	ug/L	P333931	
		Copper	0.84		ug/L	P333931	
		Lead	0.12	I	ug/L	P333931	
		Nickel	0.39	I	ug/L	P333931	
		Silver	0.010	U	ug/L	P333931	

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: Indian Creek @ Fruitville Rd.

Collection Date/Time: 10/18/2017 10:55

Field ID: G2SD101817-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938670	EPA 8321B	Glyphosate**	0.13	I	ug/L	P333599	
		Pyraclostrobin**	0.0020	U	ug/L	P333600	
		Sucralose**	0.024	I	ug/L	P333921	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P335339	
		Diuron	8.0E-04	U	ug/L	P333877	
		Fenuron	0.0080	U	ug/L	P333877	
		Imidacloprid	0.026		ug/L	P333877	MS
		Bentazon	8.0E-04	UQ	ug/L	P335339	
		Linuron	0.0040	U	ug/L	P333877	
		Acetaminophen**	0.0080	U	ug/L	P333877	

Field ID: G2SD101817-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938670	USGS O-2060-01	MCP	0.0020	UQ	ug/L	P335339	
		Carbamazepine**	4.0E-04	U	ug/L	P333877	MS
		Triclopyr**	0.0040	UQ	ug/L	P335339	
		Primidone**	0.0040	U	ug/L	P333877	
		Fluridone**	4.0E-04	U	ug/L	P333877	
1938674	EPA 8270D	Aldrin	4.3	U	ng/L	P333744	
		Alpha-BHC	2.1	U	ng/L	P333744	
		Beta-BHC	4.3	U	ng/L	P333744	
		Delta-BHC	4.3	U	ng/L	P333744	
		Gamma-BHC	4.3	U	ng/L	P333744	
		Carbophenothion	4.3	U	ng/L	P333744	
		Chlorothalonil	2.1	U	ng/L	P333744	MS, RPD
		Cypermethrin	21	U	ng/L	P333744	
		DDD-p,p'	3.2	U	ng/L	P333744	
		DDE-p,p'	3.2	U	ng/L	P333744	
		DDT-p,p'	3.2	U	ng/L	P333744	
		Dieldrin	4.3	U	ng/L	P333744	
		Endosulfan I	4.3	U	ng/L	P333744	
		Endosulfan II	4.3	U	ng/L	P333744	
		Endosulfan Sulfate	2.1	U	ng/L	P333744	
		Endrin	2.1	U	ng/L	P333744	
		Endrin Aldehyde	2.1	U	ng/L	P333744	
		Heptachlor	1.6	U	ng/L	P333744	
		Heptachlor Epoxide	2.1	U	ng/L	P333744	
		Methoxychlor	4.3	U	ng/L	P333744	
		Mirex	2.1	U	ng/L	P333744	
		Permethrin	11	U	ng/L	P333744	
		Trifluralin	1.1	U	ng/L	P333744	
		Alpha-Chlordane	1.1	U	ng/L	P333744	
		Gamma-Chlordane	1.1	U	ng/L	P333744	
		Endrin Ketone	2.1	U	ng/L	P333744	
		Dicofol	32	U	ng/L	P333744	MS
	EPA 8276	Chlordane**	2.7	U	ng/L	P333744	
		Toxaphene**	13	U	ng/L	P333744	
1938677	EPA 8270D	Alachlor	0.24	U	ng/L	P333676	MS
		Ametryn	0.31	U	ng/L	P333676	
		Atrazine	0.48	IJ	ng/L	P333676	LCS, MS
		Atrazine Desethyl	1.5	UJ	ng/L	P333676	RPD
		Azinphos Methyl	2.2	U	ng/L	P333676	
		Bromacil	0.48	U	ng/L	P333676	
		Butylate	0.39	U	ng/L	P333676	MS
		Chlorpyrifos Ethyl	0.24	U	ng/L	P333676	
		Chlorpyrifos Methyl	0.097	U	ng/L	P333676	
		Demeton	1.9	U	ng/L	P333676	
		Diazinon	0.12	U	ng/L	P333676	MS

Field ID: G2SD101817-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938677	EPA 8270D	Disulfoton	0.48	U	ng/L	P333676	
		EPTC	1.2	U	ng/L	P333676	
		Ethion	0.15	U	ng/L	P333676	
		Ethoprop	0.097	UJ	ng/L	P333676	LCS
		Fenamiphos	0.24	U	ng/L	P333676	
		Fipronil	0.24	U	ng/L	P333676	
		Fipronil Sulfide	0.15	U	ng/L	P333676	
		Fipronil Sulfone	0.15	U	ng/L	P333676	
		Hexazinone	0.48	U	ng/L	P333676	
		Malathion	0.34	U	ng/L	P333676	
		Metribuzin	0.19	UJ	ng/L	P333676	LCS, MS, RPD
		Mevinphos	0.48	U	ng/L	P333676	
		Molinate	0.29	U	ng/L	P333676	MS
		Norflurazon	0.88	I	ng/L	P333676	
		Pendimethalin	0.97	U	ng/L	P333676	
		Phorate	0.24	U	ng/L	P333676	
		Prometon	0.87	U	ng/L	P333676	
		Prometryn	0.19	U	ng/L	P333676	MS
		Simazine	0.48	U	ng/L	P333676	
		Terbufos	0.097	U	ng/L	P333676	
		Terbuthylazine	0.41	UJ	ng/L	P333676	LCS, MS
		Fonofos	0.19	UJ	ng/L	P333676	LCS, MS
		Metalaxyl	0.42	I	ng/L	P333676	
		Metolachlor	0.85	I	ng/L	P333676	MS
		Acetochlor	0.24	UJ	ng/L	P333676	LCS, MS
		Cyanazine	0.48	UJ	ng/L	P333676	LCS, MS, RPD
		Parathion Ethyl	0.24	U	ng/L	P333676	MS
		Parathion Methyl	0.24	U	ng/L	P333676	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Sample Location: Howard Creek N.E. Branch Lot 185

Collection Date/Time: 10/18/2017 11:45

Field ID: G2SD101817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938657	EPA 180.1 Rev. 2.0	Turbidity	23		NTU	P333722	
	EPA 300.0 Rev. 2.1	Chloride	35		mg Cl/L	P333849	
		Sulfate	11		mg SO4/L	P333851	
	SM 2120 B	Color (true)	100	A	PCU	P333749	
	SM 2320 B-97	Total Alkalinity	77		mg CaCO3/L	P333927	
	SM 2540 C-97	TDS	197		mg/L	P334315	
	SM 2540 D-97	TSS	11		mg/L	P334527	
	SM 4500 F-C-97	Fluoride	0.54		mg F/L	P333928	
1938660	EPA 350.1 Rev. 2.0	Ammonia-N	0.073		mg N/L	P334160	

Field ID: G2SD101817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938660	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P334069	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P334097	
	EPA 365.1 Rev. 2.0	Total-P	0.84		mg P/L	P334041	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P334348	
1938663	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.61		mg P/L	P333756	
1938693	EPA 200.7 Rev. 4.4	Calcium	30.2		mg/L	P333931	
		Iron	4.60E+03		ug/L	P333931	
		Magnesium	10.3		mg/L	P333931	
		Potassium	1.1	I	mg/L	P333931	
		Sodium	14.8		mg/L	P333931	
		Zinc	5.0	U	ug/L	P333931	
	EPA 200.8 Rev. 5.4	Arsenic	3.12		ug/L	P333931	
		Cadmium	0.020	U	ug/L	P333931	
		Chromium	1.5	I	ug/L	P333931	
		Copper	0.60	I	ug/L	P333931	
		Lead	0.22		ug/L	P333931	
		Nickel	0.99		ug/L	P333931	
		Silver	0.010	U	ug/L	P333931	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: Howard Creek N.E. Branch Lot 185

Collection Date/Time: 10/18/2017 11:45

Field ID: G2SD101817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938671	EPA 8321B	Glyphosate**	0.12	I	ug/L	P333599	
		Pyraclostrobin**	0.0020	U	ug/L	P333600	
		Sucralose**	0.18		ug/L	P333921	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P335339	
		Diuron	8.0E-04	U	ug/L	P333877	
		Fenuron	0.0080	U	ug/L	P333877	
		Imidacloprid	0.0017	I	ug/L	P333877	MS
		Bentazon	0.044	Q	ug/L	P335339	
		Linuron	0.0040	U	ug/L	P333877	
		Acetaminophen**	0.0080	U	ug/L	P333877	
		MCP	0.0020	UQ	ug/L	P335339	
		Carbamazepine**	4.0E-04	U	ug/L	P333877	MS
		Triclopyr**	0.0040	UQ	ug/L	P335339	
		Primidone**	0.0040	U	ug/L	P333877	
		Fluridone**	4.0E-04	U	ug/L	P333877	
1938675	EPA 8270D	Aldrin	4.3	U	ng/L	P333744	
		Alpha-BHC	2.1	U	ng/L	P333744	
		Beta-BHC	4.3	U	ng/L	P333744	
		Delta-BHC	4.3	U	ng/L	P333744	

Field ID: G2SD101817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938675	EPA 8270D	Gamma-BHC	4.3	U	ng/L	P333744	
		Carbophenothion	4.3	U	ng/L	P333744	
		Chlorothalonil	2.1	U	ng/L	P333744	MS, RPD
		Cypermethrin	21	U	ng/L	P333744	
		DDD-p,p'	3.2	U	ng/L	P333744	
		DDE-p,p'	3.2	U	ng/L	P333744	
		DDT-p,p'	3.2	U	ng/L	P333744	
		Dieldrin	4.3	U	ng/L	P333744	
		Endosulfan I	4.3	U	ng/L	P333744	
		Endosulfan II	4.3	U	ng/L	P333744	
		Endosulfan Sulfate	2.1	U	ng/L	P333744	
		Endrin	2.1	U	ng/L	P333744	
		Endrin Aldehyde	2.1	U	ng/L	P333744	
		Heptachlor	1.6	U	ng/L	P333744	
		Heptachlor Epoxide	2.1	U	ng/L	P333744	
		Methoxychlor	4.3	U	ng/L	P333744	
		Mirex	2.1	U	ng/L	P333744	
		Permethrin	11	U	ng/L	P333744	
		Trifluralin	1.1	U	ng/L	P333744	
		Alpha-Chlordane	1.1	U	ng/L	P333744	
		Gamma-Chlordane	1.1	U	ng/L	P333744	
		Endrin Ketone	2.1	U	ng/L	P333744	
		Dicofol	32	U	ng/L	P333744	MS
		Chlordane**	2.7	U	ng/L	P333744	
		Toxaphene**	13	U	ng/L	P333744	
1938678	EPA 8270D	Alachlor	0.24	U	ng/L	P333676	MS
		Ametryn	0.32	U	ng/L	P333676	
		Atrazine	0.55	IJ	ng/L	P333676	LCS, MS
		Atrazine Desethyl	1.5	UJ	ng/L	P333676	RPD
		Azinphos Methyl	2.2	U	ng/L	P333676	
		Bromacil	0.49	U	ng/L	P333676	
		Butylate	0.39	U	ng/L	P333676	MS
		Chlorpyrifos Ethyl	0.24	U	ng/L	P333676	
		Chlorpyrifos Methyl	0.097	U	ng/L	P333676	
		Demeton	1.9	U	ng/L	P333676	
		Diazinon	0.12	U	ng/L	P333676	MS
		Disulfoton	0.49	U	ng/L	P333676	
		EPTC	1.2	U	ng/L	P333676	
		Ethion	0.15	U	ng/L	P333676	
		Ethoprop	0.097	UJ	ng/L	P333676	LCS
		Fenamiphos	0.24	U	ng/L	P333676	
		Fipronil	0.24	U	ng/L	P333676	
		Fipronil Sulfide	0.15	U	ng/L	P333676	
		Fipronil Sulfone	0.26	I	ng/L	P333676	
		Hexazinone	3.9		ng/L	P333676	

Field ID: G2SD101817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938678	EPA 8270D	Malathion	0.34	U	ng/L	P333676	
		Metribuzin	0.19	UJ	ng/L	P333676	LCS, MS, RPD
		Mevinphos	0.49	U	ng/L	P333676	
		Molinate	0.29	U	ng/L	P333676	MS
		Norflurazon	0.49	U	ng/L	P333676	
		Pendimethalin	0.97	U	ng/L	P333676	
		Phorate	0.24	U	ng/L	P333676	
		Prometon	0.87	U	ng/L	P333676	
		Prometryn	0.19	U	ng/L	P333676	MS
		Simazine	0.49	U	ng/L	P333676	
		Terbufos	0.097	U	ng/L	P333676	
		Terbuthylazine	0.41	UJ	ng/L	P333676	LCS, MS
		Fonofos	0.19	UJ	ng/L	P333676	LCS, MS
		Metalaxyl	0.24	U	ng/L	P333676	
		Metolachlor	1.4		ng/L	P333676	MS
		Acetochlor	0.24	UJ	ng/L	P333676	LCS, MS
		Cyanazine	0.49	UJ	ng/L	P333676	LCS, MS, RPD
		Parathion Ethyl	0.24	U	ng/L	P333676	MS
		Parathion Methyl	0.24	U	ng/L	P333676	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Sample Location: North Creek by Oaks Creek Ct.

Collection Date/Time: 10/18/2017 12:40

Field ID: G2SD101817-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938658	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P333722	
	EPA 300.0 Rev. 2.1	Chloride	79		mg Cl/L	P333849	
		Sulfate	250		mg SO4/L	P333851	
		Color (true)	77	A	PCU	P333748	
	SM 2320 B-97	Total Alkalinity	285		mg CaCO3/L	P333927	
	SM 2540 C-97	TDS	774	A	mg/L	P334315	
	SM 2540 D-97	TSS	2	UA	mg/L	P334527	
	SM 4500 F-C-97	Fluoride	0.39		mg F/L	P333928	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.075		mg N/L	P334160	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P334069	
1938661	EPA 353.2 Rev. 2.0	NO2NO3-N	0.34		mg N/L	P334097	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P334041	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P334348	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.21		mg P/L	P333756	
1938694	EPA 200.7 Rev. 4.4	Calcium	177		mg/L	P333931	
		Iron	460		ug/L	P333931	
		Magnesium	32.6		mg/L	P333931	
		Potassium	5.3		mg/L	P333931	

Field ID: G2SD101817-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938694	EPA 200.7 Rev. 4.4	Sodium	53.7		mg/L	P333931	
		Zinc	5.0	U	ug/L	P333931	
	EPA 200.8 Rev. 5.4	Arsenic	5.46		ug/L	P333931	
		Cadmium	0.020	U	ug/L	P333931	
		Chromium	0.47	I	ug/L	P333931	
		Copper	1.14		ug/L	P333931	
		Lead	0.050	U	ug/L	P333931	
		Nickel	0.81		ug/L	P333931	
		Silver	0.010	U	ug/L	P333931	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: North Creek by Oaks Creek Ct.

Collection Date/Time: 10/18/2017 12:40

Field ID: G2SD101817-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938672	EPA 8321B	Glyphosate**	0.46	J	ug/L	P333599	SUR
		Pyraclostrobin**	0.0020	U	ug/L	P333600	
		Sucralose**	0.30		ug/L	P333921	
	USGS O-2060-01	2,4-D	0.051	Q	ug/L	P335339	
		Diuron	9.4E-04	I	ug/L	P333877	
		Fenuron	0.0080	U	ug/L	P333877	
		Imidacloprid	0.075		ug/L	P333877	MS
		Bentazon	0.043	Q	ug/L	P335339	
		Linuron	0.0040	U	ug/L	P333877	
		Acetaminophen**	0.0080	U	ug/L	P333877	
		MCP	0.0020	UQ	ug/L	P335339	
		Carbamazepine**	6.7E-04	I	ug/L	P333877	MS
		Triclopyr**	0.0040	UQ	ug/L	P335339	
		Primidone**	0.0040	U	ug/L	P333877	
		Fluridone**	0.48		ug/L	P333877	
	EPA 8270D	Aldrin	4.4	U	ng/L	P333744	
		Alpha-BHC	2.2	U	ng/L	P333744	
		Beta-BHC	4.4	U	ng/L	P333744	
		Delta-BHC	4.4	U	ng/L	P333744	
		Gamma-BHC	4.4	U	ng/L	P333744	
		Carbophenothion	4.4	U	ng/L	P333744	
		Chlorothalonil	2.2	U	ng/L	P333744	MS, RPD
		Cypermethrin	22	U	ng/L	P333744	
		DDD-p,p'	3.3	U	ng/L	P333744	
		DDE-p,p'	3.3	U	ng/L	P333744	
		DDT-p,p'	3.3	U	ng/L	P333744	
		Dieldrin	4.4	U	ng/L	P333744	
		Endosulfan I	4.4	U	ng/L	P333744	

Field ID: G2SD101817-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938676	EPA 8270D	Endosulfan II	4.4	U	ng/L	P333744	
		Endosulfan Sulfate	2.2	U	ng/L	P333744	
		Endrin	2.2	U	ng/L	P333744	
		Endrin Aldehyde	2.2	U	ng/L	P333744	
		Heptachlor	1.6	U	ng/L	P333744	
		Heptachlor Epoxide	2.2	U	ng/L	P333744	
		Methoxychlor	4.4	U	ng/L	P333744	
		Mirex	2.2	U	ng/L	P333744	
		Permethrin	11	U	ng/L	P333744	
		Trifluralin	1.1	U	ng/L	P333744	
		Alpha-Chlordane	1.1	U	ng/L	P333744	
		Gamma-Chlordane	1.1	U	ng/L	P333744	
		Endrin Ketone	2.2	U	ng/L	P333744	
		Dicofol	33	U	ng/L	P333744	MS
	EPA 8276	Chlordane**	2.7	U	ng/L	P333744	
		Toxaphene**	14	U	ng/L	P333744	
1938679	EPA 8270D	Alachlor	0.24	U	ng/L	P333676	MS
		Ametryn	0.32	U	ng/L	P333676	
		Atrazine	9.6	J	ng/L	P333676	LCS, MS
		Atrazine Desethyl	1.5	UJ	ng/L	P333676	RPD
		Azinphos Methyl	2.2	U	ng/L	P333676	
		Bromacil	0.49	U	ng/L	P333676	
		Butylate	0.39	U	ng/L	P333676	MS
		Chlorpyrifos Ethyl	0.24	U	ng/L	P333676	
		Chlorpyrifos Methyl	0.097	U	ng/L	P333676	
		Demeton	1.9	U	ng/L	P333676	
		Diazinon	0.12	U	ng/L	P333676	MS
		Disulfoton	0.49	U	ng/L	P333676	
		EPTC	1.2	U	ng/L	P333676	
		Ethion	0.15	U	ng/L	P333676	
		Ethoprop	0.097	UJ	ng/L	P333676	LCS
		Fenamiphos	0.24	U	ng/L	P333676	
		Fipronil	0.24	U	ng/L	P333676	
		Fipronil Sulfide	0.15	U	ng/L	P333676	
		Fipronil Sulfone	0.15	U	ng/L	P333676	
		Hexazinone	3.9		ng/L	P333676	
		Malathion	0.34	U	ng/L	P333676	
		Metribuzin	0.19	UJ	ng/L	P333676	LCS, MS, RPD
		Mevinphos	0.49	U	ng/L	P333676	
		Molinate	0.29	U	ng/L	P333676	MS
		Norflurazon	0.49	U	ng/L	P333676	
		Pendimethalin	0.97	U	ng/L	P333676	
		Phorate	0.24	U	ng/L	P333676	
		Prometon	0.87	U	ng/L	P333676	

Field ID: G2SD101817-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938679	EPA 8270D	Prometryn	0.19	U	ng/L	P333676	MS
		Simazine	0.49	U	ng/L	P333676	
		Terbufos	0.097	U	ng/L	P333676	
		Terbuthylazine	0.41	UJ	ng/L	P333676	LCS, MS
		Fonofos	0.19	UJ	ng/L	P333676	LCS, MS
		Metalaxyl	0.24	U	ng/L	P333676	
		Metolachlor	4.2		ng/L	P333676	MS
		Acetochlor	0.24	UJ	ng/L	P333676	LCS, MS
		Cyanazine	0.49	UJ	ng/L	P333676	LCS, MS, RPD
		Parathion Ethyl	0.24	U	ng/L	P333676	MS
		Parathion Methyl	0.24	U	ng/L	P333676	

Ref. Method and Comment:

EPA 8321B: Refer to the narrative for an explanation of QC Codes. Results confirmed in re-extraction.

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

USGS O-2060-01: Results confirmed.

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Sample Location: North Creek by Oaks Creek Ct.

Collection Date/Time: 10/18/2017 12:40

Field ID: G2SD101817-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938673	EPA 8321B USGS O-2060-01	Sucralose**	0.32		ug/L	P333921	
		2,4-D	0.056	Q	ug/L	P335339	
		Diuron	8.5E-04	I	ug/L	P333877	
		Fenuron	0.0080	U	ug/L	P333877	
		Imidacloprid	0.075		ug/L	P333877	MS
		Bentazon	0.043	Q	ug/L	P335339	
		Linuron	0.0040	U	ug/L	P333877	
		Acetaminophen**	0.0080	U	ug/L	P333877	
		MCP	0.0020	UQ	ug/L	P335339	
		Carbamazepine**	6.5E-04	I	ug/L	P333877	MS
		Triclopyr**	0.0040	UQ	ug/L	P335339	
		Primidone**	0.0040	U	ug/L	P333877	
		Fluridone**	0.76		ug/L	P333877	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

USGS O-2060-01: Results confirmed.

Sample Location: Walker Creek at 32nd Street

Collection Date/Time: 10/18/2017 10:04

Field ID: G2SD101817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938888	EPA 180.1 Rev. 2.0 EPA 300.0 Rev. 2.1	Turbidity	2.7	Q	NTU	P333791	
		Chloride	820		mg Cl/L	P333850	
		Sulfate	200		mg SO4/L	P333852	
	SM 2120 B	Color (true)	62	AQ	PCU	P333798	
	SM 2320 B-97	Total Alkalinity	187		mg CaCO3/L	P333927	
	SM 2540 C-97	TDS	1.73E+03		mg/L	P334382	

Field ID: G2SD101817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938888	SM 2540 D-97	TSS	4	I	mg/L	P334371	
	SM 4500 F-C-97	Fluoride	0.67		mg F/L	P333928	
1938889	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P334163	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.83		mg N/L	P334066	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P334181	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P334043	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P334348	
1938890	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.19	Q	mg P/L	P333817	
1938898	EPA 200.7 Rev. 4.4	Calcium	95.5		mg/L	P333931	
		Iron	350		ug/L	P333931	
		Magnesium	77.4		mg/L	P333931	
		Potassium	19.5		mg/L	P333931	
		Sodium	501		mg/L	P333931	
		Zinc	5.0	U	ug/L	P333931	
	EPA 200.8 Rev. 5.4	Arsenic	3.04		ug/L	P333931	
		Cadmium	0.020	U	ug/L	P333931	
		Chromium	0.87	I	ug/L	P333931	
		Copper	0.88		ug/L	P333931	
		Lead	0.12	I	ug/L	P333931	
		Nickel	1.09		ug/L	P333931	
		Silver	0.010	U	ug/L	P333931	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired prior to receipt.

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

SM 2120 B: The sample expired prior to receipt.

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 dissolved: O-Phosphate-P: The sample expired prior to receipt.

Sample Location: Walker Creek at 32nd Street

Collection Date/Time: 10/18/2017 10:04

Field ID: G2SD101817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938894	EPA 8321B	Glyphosate**	0.10	UJ	ug/L	P333599	SUR
		Pyraclostrobin**	0.0020	U	ug/L	P333600	
		Sucralose**	0.33		ug/L	P334010	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P335341	
		Diuron	0.0057		ug/L	P333714	
		Fenuron	0.0080	UQ	ug/L	P335341	
		Imidacloprid	0.033		ug/L	P333714	
		Bentazon	0.0048	Q	ug/L	P335341	
		Linuron	0.0040	U	ug/L	P333714	
		Acetaminophen**	0.0080	U	ug/L	P333714	
		MCP	0.0020	UQ	ug/L	P335341	
		Carbamazepine**	0.0048	Q	ug/L	P335341	
		Triclopyr**	0.0040	UQ	ug/L	P335341	
		Primidone**	0.010	I	ug/L	P333714	
		Fluridone**	0.022		ug/L	P333714	

Field ID: G2SD101817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938896	EPA 8270D	Aldrin	4.3	U	ng/L	P333887	
		Alpha-BHC	2.1	U	ng/L	P333887	
		Beta-BHC	4.3	U	ng/L	P333887	
		Delta-BHC	4.3	U	ng/L	P333887	
		Gamma-BHC	4.3	U	ng/L	P333887	
		Carbophenothion	4.3	U	ng/L	P333887	
		Chlorothalonil	2.1	UJ	ng/L	P333887	RPD
		Cypermethrin	21	U	ng/L	P333887	
		DDD-p,p'	3.2	U	ng/L	P333887	
		DDE-p,p'	3.2	U	ng/L	P333887	
		DDT-p,p'	3.2	U	ng/L	P333887	
		Dieldrin	4.3	U	ng/L	P333887	
		Endosulfan I	4.3	U	ng/L	P333887	
		Endosulfan II	4.3	U	ng/L	P333887	
		Endosulfan Sulfate	2.1	U	ng/L	P333887	
		Endrin	2.1	U	ng/L	P333887	
		Endrin Aldehyde	2.1	U	ng/L	P333887	
		Heptachlor	1.6	U	ng/L	P333887	
		Heptachlor Epoxide	2.1	U	ng/L	P333887	
		Methoxychlor	4.3	U	ng/L	P333887	
		Mirex	2.1	U	ng/L	P333887	
		Permethrin	11	U	ng/L	P333887	
		Trifluralin	1.1	U	ng/L	P333887	
		Alpha-Chlordane	1.1	U	ng/L	P333887	
		Gamma-Chlordane	1.1	U	ng/L	P333887	
		Endrin Ketone	2.1	U	ng/L	P333887	
		Dicofol	32	U	ng/L	P333887	
	EPA 8276	Chlordane**	2.7	U	ng/L	P333887	
		Toxaphene**	13	U	ng/L	P333887	
1938897	EPA 8270D	Alachlor	0.25	U	ng/L	P333898	
		Ametryn	0.32	U	ng/L	P333898	
		Atrazine	6.6		ng/L	P333898	MS
		Atrazine Desethyl	1.5	U	ng/L	P333898	MS
		Azinphos Methyl	2.2	U	ng/L	P333898	
		Bromacil	4.8		ng/L	P333898	
		Butylate	0.39	U	ng/L	P333898	RPD
		Chlorpyrifos Ethyl	0.25	U	ng/L	P333898	
		Chlorpyrifos Methyl	0.098	U	ng/L	P333898	
		Demeton	2.0	UJ	ng/L	P333898	RPD
		Diazinon	0.12	U	ng/L	P333898	
		Disulfoton	0.49	UJ	ng/L	P333898	RPD
		EPTC	1.2	U	ng/L	P333898	RPD
		Ethion	0.15	U	ng/L	P333898	
		Ethoprop	0.098	U	ng/L	P333898	
		Fenamiphos	0.25	U	ng/L	P333898	

Field ID: G2SD101817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938897	EPA 8270D	Fipronil	0.46	I	ng/L	P333898	
		Fipronil Sulfide	0.52	I	ng/L	P333898	RPD
		Fipronil Sulfone	1.6		ng/L	P333898	RPD
		Hexazinone	1.9	I	ng/L	P333898	
		Malathion	0.34	U	ng/L	P333898	
		Metribuzin	0.20	U	ng/L	P333898	MS
		Mevinphos	0.49	U	ng/L	P333898	
		Molinate	0.29	U	ng/L	P333898	RPD
		Norflurazon	0.63	I	ng/L	P333898	RPD
		Pendimethalin	0.98	U	ng/L	P333898	
		Phorate	0.25	U	ng/L	P333898	
		Prometon	0.88	U	ng/L	P333898	
		Prometryn	0.20	U	ng/L	P333898	
		Simazine	6.2		ng/L	P333898	
		Terbufos	0.098	U	ng/L	P333898	
		Terbuthylazine	0.83	I	ng/L	P333898	
		Fonofos	0.20	U	ng/L	P333898	
		Metalaxyl	0.27	I	ng/L	P333898	
		Metolachlor	1.7		ng/L	P333898	
		Acetochlor	0.25	U	ng/L	P333898	
		Cyanazine	0.49	UJ	ng/L	P333898	LCS
		Parathion Ethyl	0.25	U	ng/L	P333898	
		Parathion Methyl	0.25	U	ng/L	P333898	

Ref. Method and Comment:

EPA 8321B: Refer to the narrative for an explanation of QC Codes. Results confirmed in re-extraction.

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

USGS O-2060-01: Carbamazepine and Fenuron:: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

EPA 8276: MS accuracy for Chlordane not assessed due to high content of this parameter in the sample spiked.

Sample Location: Walker Creek at 32nd Street

Collection Date/Time: 10/18/2017 10:04

Field ID: G2SD101817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938895	EPA 8321B	Sucralose**	0.33		ug/L	P334010	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P335341	
		Diuron	0.0054		ug/L	P333714	
		Fenuron	0.0080	UQ	ug/L	P335341	
		Imidacloprid	0.030		ug/L	P333714	
		Bentazon	0.0048	Q	ug/L	P335341	
		Linuron	0.0040	U	ug/L	P333714	
		Acetaminophen**	0.0080	U	ug/L	P333714	
		MCP	0.0020	UQ	ug/L	P335341	
		Carbamazepine**	0.0052	Q	ug/L	P335341	
		Triclopyr**	0.0040	UQ	ug/L	P335341	
		Primidone**	0.012	I	ug/L	P333714	

Field ID: G2SD101817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1938895	USGS O-2060-01	Fluridone**	0.021		ug/L	P333714	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

USGS O-2060-01: Carbamazepine and Fenuron:: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

Non-Conformance Report

NCR ID: 6701

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
SO-DIST-2017-10-19-01	TLH-2017-10-20-06		
SO-DIST-2017-10-19-01	TLH-2017-10-20-10		
SO-DIST-2017-10-19-01	TLH-2017-10-20-11		
SO-DIST-2017-10-19-01	TLH-2017-10-20-12		

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived one day late,by common carrier.

Resolution: Customer contacted, email correspondence attached to sample submittal forms. Samples will be qualified as appropriate.

Authorized by/Date: Joshua Ayres 10/24/2017

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
 Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P333721

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P333722

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P333791

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P333931

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P333931

Component	Result	Code	Units
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: P333931

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: P333837

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333841

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333849

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333850

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333851

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333852

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334091

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334160

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334163

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334066

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334069

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334097

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334181

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334041

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334043

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P333756

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P333817

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

Reference Method: EPA 8270D
Batch ID: P333676

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
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
Metaxyl	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P333744

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
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 8270D

Batch ID: P333887

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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P333887

Component	Result	Code	Units
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 8270D

Batch ID: P333898

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
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
Metaxyl	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276
Batch ID: P333744

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

Reference Method: EPA 8276
Batch ID: P333887

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

Reference Method: EPA 8321B
Batch ID: P333599

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P333600

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P333921

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P334010

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P333747

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P333748

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P333749

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P333798

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P333927

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

Reference Method: SM 2540 C-97
Batch ID: P334315

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P334382

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P334371

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P334527

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P333928

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P334348

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

Reference Method: USGS O-2060-01
Batch ID: P333714

Component	Result	Code	Units
Acetaminophen	0.0080	U	ug/L
Diuron	8.0E-04	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P333714

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
Primidone	0.0040	U	ug/L

Reference Method: USGS O-2060-01
Batch ID: P333877

Component	Result	Code	Units
Acetaminophen	0.0080	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
Primidone	0.0040	U	ug/L

Reference Method: USGS O-2060-01
Batch ID: P335339

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
MCP	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: USGS O-2060-01
Batch ID: P335341

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
MCP	0.0020	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: P333931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	105		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	103		P	85 - 115
Sodium	103		P	85 - 115
Zinc	98.2		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P333931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	105		P	85 - 115
Cadmium	106		P	85 - 115
Chromium	102		P	85 - 115
Copper	101		P	85 - 115
Lead	98.4		P	85 - 115
Nickel	103		P	85 - 115
Silver	98.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333837

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333841

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333849

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333850

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333852

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334091

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334160

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334163

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334066

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334069

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: P334097

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: P334181

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334041

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334043

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P333756

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 365.1 Rev. 2.0 dissolved
 Batch ID: P333817

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

Reference Method: EPA 8270D
 Batch ID: P333676

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	137	130	F/F	78 - 118
Alachlor	113	108	P/P	77 - 119
Ametryn	109	100	P/P	61 - 136
Atrazine	132	116	F/P	73 - 120
Atrazine Desethyl	121	73.3	P/P	16 - 122
Azinphos Methyl	168	141	P/P	69 - 186
Bromacil	80.2	77.2	P/P	40 - 125
Butylate	64.2	60.5	P/P	32 - 87.0
Chlorpyrifos Ethyl	110	101	P/P	53 - 110
Chlorpyrifos Methyl	116	98.6	P/P	31 - 119
Cyanazine	238	100	F/P	36 - 224
Demeton	105	98.4	P/P	39 - 122
Diazinon	118	108	P/P	75 - 119
Disulfoton	90.1	81.4	P/P	42 - 139
EPTC	65.5	63.3	P/P	33 - 96.0
Ethion	111	106	P/P	63 - 127
Ethoprop	114	90.3	F/P	65 - 107
Fenamiphos	103	110	P/P	64 - 137
Fipronil	106	111	P/P	60 - 126
Fipronil Sulfide	99.6	122	P/P	58 - 124
Fipronil Sulfone	89.3	92.8	P/P	57 - 126
Fonofos	159	121	F/F	65 - 111
Hexazinone	129	125	P/P	46 - 151
Malathion	108	111	P/P	68 - 132
Metalaxyl	103	98.7	P/P	51 - 132
Metolachlor	104	108	P/P	78 - 119
Metribuzin	234	122	F/P	58 - 148
Mevinphos	109	85.5	P/P	34 - 128
Molinate	89.3	79.8	P/P	44 - 101
Norflurazon	112	110	P/P	63 - 129
Parathion Ethyl	105	94.8	P/P	80 - 109
Parathion Methyl	115	100	P/P	74 - 125
Pendimethalin	108	96.1	P/P	48 - 134
Phorate	98.5	84.4	P/P	52 - 119
Prometon	114	116	P/P	69 - 124
Prometryn	114	116	P/P	66 - 124
Simazine	132	124	P/P	61 - 134
Terbufos	109	92.1	P/P	58 - 115
Terbuthylazine	124	111	F/P	77 - 113

Reference Method: EPA 8270D
 Batch ID: P333744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	45.0	49.5	P/P	26 - 88.0
Alpha-BHC	92.4	94.4	P/P	63 - 114

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P333744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	86.1	92.0	P/P	56 - 117
Beta-BHC	88.2	98.7	P/P	57 - 138
Carbophenothion	110	114	P/P	36 - 148
Chlorothalonil	47.5	60.3	P/P	26 - 173
Cypermethrin	126	136	P/P	42 - 159
DDD-p,p'	96.9	104	P/P	62 - 126
DDE-p,p'	78.8	95.3	P/P	53 - 115
DDT-p,p'	92.5	98.2	P/P	54 - 117
Delta-BHC	95.0	104	P/P	68 - 158
Dicofol	61.7	63.0	P/P	25 - 114
Dieldrin	94.6	99.1	P/P	59 - 126
Endosulfan I	93.3	99.3	P/P	62 - 138
Endosulfan II	93.6	86.9	P/P	61 - 150
Endosulfan Sulfate	95.5	104	P/P	63 - 132
Endrin	88.3	89.3	P/P	49 - 148
Endrin Aldehyde	97.4	106	P/P	50 - 144
Endrin Ketone	95.9	101	P/P	66 - 122
Gamma-BHC	77.8	81.0	P/P	60 - 137
Gamma-Chlordane	84.1	89.9	P/P	54 - 113
Heptachlor	72.8	76.7	P/P	43 - 104
Heptachlor Epoxide	87.8	90.9	P/P	64 - 118
Methoxychlor	99.2	108	P/P	63 - 129
Mirex	76.4	86.6	P/P	39 - 93.0
Permethrin	110	116	P/P	51 - 123
Trifluralin	81.1	86.5	P/P	35 - 187

Reference Method: EPA 8270D
 Batch ID: P333887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	43.9	41.0	P/P	26 - 88.0
Alpha-BHC	86.3	87.2	P/P	63 - 114
Alpha-Chlordane	86.2	84.4	P/P	56 - 117
Beta-BHC	96.7	108	P/P	57 - 138
Carbophenothion	80.8	103	P/P	36 - 148
Chlorothalonil	37.3	83.2	P/P	26 - 173
Cypermethrin	85.8	86.3	P/P	42 - 159
DDD-p,p'	96.7	99.9	P/P	62 - 126
DDE-p,p'	90.5	86.5	P/P	53 - 115
DDT-p,p'	93.4	87.7	P/P	54 - 117
Delta-BHC	94.3	95.1	P/P	68 - 158
Dicofol	81.9	83.8	P/P	25 - 114
Dieldrin	87.9	91.1	P/P	59 - 126
Endosulfan I	92.5	91.3	P/P	62 - 138
Endosulfan II	90.3	97.1	P/P	61 - 150
Endosulfan Sulfate	88.9	94.5	P/P	63 - 132
Endrin	87.1	92.5	P/P	49 - 148
Endrin Aldehyde	85.6	91.7	P/P	50 - 144
Endrin Ketone	89.0	94.3	P/P	66 - 122
Gamma-BHC	90.6	89.1	P/P	60 - 137
Gamma-Chlordane	85.4	84.1	P/P	54 - 113
Heptachlor	76.8	71.1	P/P	43 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P333887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor Epoxide	87.8	87.1	P/P	64 - 118
Methoxychlor	101	93.2	P/P	63 - 129
Mirex	76.8	70.4	P/P	39 - 93.0
Permethrin	89.0	85.2	P/P	51 - 123
Trifluralin	86.3	82.1	P/P	35 - 187

Reference Method: EPA 8270D
 Batch ID: P333898

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.6	97.4	P/P	78 - 118
Alachlor	86.6	87.4	P/P	77 - 119
Ametryn	62.0	66.2	P/P	61 - 136
Atrazine	120	107	P/P	73 - 120
Atrazine Desethyl	75.8	93.2	P/P	16 - 122
Azinphos Methyl	132	123	P/P	69 - 186
Bromacil	69.7	80.9	P/P	40 - 125
Butylate	33.4	33.5	P/P	32 - 87.0
Chlorpyrifos Ethyl	85.4	85.1	P/P	53 - 110
Chlorpyrifos Methyl	87.8	86.2	P/P	31 - 119
Cyanazine	289	216	F/P	36 - 224
Demeton	84.7	52.2	P/P	39 - 122
Diazinon	87.0	82.6	P/P	75 - 119
Disulfoton	79.4	43.2	P/P	42 - 139
EPTC	33.1	33.2	P/P	33 - 96.0
Ethion	93.0	93.5	P/P	63 - 127
Ethoprop	85.9	80.5	P/P	65 - 107
Fenamiphos	108	93.0	P/P	64 - 137
Fipronil	88.0	86.2	P/P	60 - 126
Fipronil Sulfide	83.9	83.2	P/P	58 - 124
Fipronil Sulfone	77.1	78.9	P/P	57 - 126
Fonofos	109	102	P/P	65 - 111
Hexazinone	91.1	89.0	P/P	46 - 151
Malathion	77.4	101	P/P	68 - 132
Metaxyl	81.4	72.2	P/P	51 - 132
Metolachlor	82.6	78.9	P/P	78 - 119
Metribuzin	124	138	P/P	58 - 148
Mevinphos	62.5	66.7	P/P	34 - 128
Molinate	46.2	46.2	P/P	44 - 101
Norflurazon	86.3	91.1	P/P	63 - 129
Parathion Ethyl	94.9	91.6	P/P	80 - 109
Parathion Methyl	109	103	P/P	74 - 125
Pendimethalin	86.9	82.4	P/P	48 - 134
Phorate	77.7	64.6	P/P	52 - 119
Prometon	86.8	83.1	P/P	69 - 124
Prometryn	83.1	82.5	P/P	66 - 124
Simazine	93.9	95.0	P/P	61 - 134
Terbufos	86.5	73.5	P/P	58 - 115
Terbutylazine	96.6	92.8	P/P	77 - 113

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P333744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.6	105	P/P	48 - 121
Toxaphene	117	135	P/P	43 - 135

Reference Method: EPA 8276
Batch ID: P333887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.6	73.8	P/P	48 - 121
Toxaphene	91.8	89.9	P/P	43 - 135

Reference Method: EPA 8321B
Batch ID: P333599

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	104		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P333600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	95.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P333921

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	105		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P334010

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	88.4		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P333927

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

Reference Method: SM 4500 F-C-97
Batch ID: P333928

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P334348

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P333714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	52.7		P	30 - 150
Diuron	55.8		P	40 - 150
Fluridone	110		P	40 - 150
Imidacloprid	107		P	40 - 160
Linuron	108		P	40 - 150
Primidone	108		P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P333877

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	77.5		P	30 - 150
Carbamazepine	128		P	40 - 150
Diuron	111		P	40 - 150
Fenuron	109		P	40 - 150
Fluridone	114		P	40 - 150
Imidacloprid	96.1		P	40 - 160
Linuron	110		P	40 - 150
Primidone	106		P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	97.9		P	40 - 150
Bentazon	84.9		P	30 - 150
MCP	81.1		P	40 - 150
Triclopyr	81.4		P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335341

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.8		P	40 - 150
Bentazon	115		P	30 - 150
Carbamazepine	131		P	40 - 150
Fenuron	93.3		P	40 - 150
MCP	89.8		P	40 - 150
Triclopyr	92.4		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P333931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938627	Calcium	106		P	80 - 120
1938627	Iron	108		P	80 - 120
1938627	Magnesium	109		P	80 - 120
1938627	Potassium	108		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P333931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938627	Sodium	105		P	80 - 120
1938627	Zinc	101		P	80 - 120
1938886	Calcium	106	104	P/P	80 - 120
1938886	Iron	107	105	P/P	80 - 120
1938886	Magnesium	109	106	P/P	80 - 120
1938886	Potassium	103	102	P/P	80 - 120
1938886	Sodium	104		P	80 - 120
1938886	Zinc	99.8	99.0	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P333931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938627	Arsenic	107		P	80 - 120
1938627	Cadmium	108		P	80 - 120
1938627	Chromium	105		P	80 - 120
1938627	Copper	103		P	80 - 120
1938627	Lead	102		P	80 - 120
1938627	Nickel	104		P	80 - 120
1938627	Silver	101		P	80 - 120
1938886	Arsenic	103	102	P/P	80 - 120
1938886	Cadmium	107	106	P/P	80 - 120
1938886	Chromium	102	101	P/P	80 - 120
1938886	Copper	99.5	97.8	P/P	80 - 120
1938886	Lead	99.6	98.0	P/P	80 - 120
1938886	Nickel	101	100	P/P	80 - 120
1938886	Silver	98.7	97.4	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P333837

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938615	Chloride	105		P	90 - 110
1938621	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P333841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938615	Sulfate	103		P	90 - 110
1938621	Sulfate	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P333849

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938812	Chloride	95.3		P	90 - 110
1938813	Chloride	96.3		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938883	Chloride	96.1		P	90 - 110
1939076	Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938813	Sulfate	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938883	Sulfate	95.7		P	90 - 110
1939076	Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938573	Ammonia-N	97.8	98.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334160

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938706	Ammonia-N	97.4	97.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939032	Ammonia-N	105	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938425	Kjeldahl Nitrogen	93.7	94.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938616	Kjeldahl Nitrogen	94.9	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334097

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938568	NO2NO3-N	101		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334181

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938425	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938706	Total-P	101	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939035	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P333756

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938708	O-Phosphate-P	98.4	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P333817

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939039	O-Phosphate-P	94.3	96.1	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P333676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938585	Acetochlor	153	133	F/F	74 - 123
1938585	Alachlor	127	112	F/P	73 - 124
1938585	Ametryn	119	105	P/P	56 - 149
1938585	Atrazine	126	120	F/P	73 - 124
1938585	Atrazine Desethyl	70.1	103	P/P	12 - 103
1938585	Azinphos Methyl	138	118	P/P	60 - 202
1938585	Bromacil	105	94.5	P/P	42 - 133
1938585	Butylate	85.6	65.3	F/P	10 - 85.0
1938585	Chlorpyrifos Ethyl	111	110	P/P	53 - 113
1938585	Chlorpyrifos Methyl	109	115	P/P	40 - 115
1938585	Cyanazine	160	212	P/F	22 - 210
1938585	Demeton	111	119	P/P	17 - 149
1938585	Diazinon	135	125	F/F	72 - 124
1938585	Disulfoton	86.0	102	P/P	43 - 139
1938585	EPTC	85.3	70.2	P/P	10 - 86.0
1938585	Ethion	112	119	P/P	65 - 131
1938585	Ethoprop	100	103	P/P	59 - 110
1938585	Fenamiphos	114	130	P/P	57 - 138
1938585	Fipronil	127	118	P/P	40 - 130
1938585	Fipronil Sulfide	108	118	P/P	36 - 128
1938585	Fipronil Sulfone	97.7	104	P/P	16 - 145
1938585	Fonofos	126	137	F/F	60 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P333676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938585	Hexazinone	136	139	P/P	69 - 142
1938585	Malathion	116	121	P/P	68 - 132
1938585	Metalaxyl	112	103	P/P	66 - 118
1938585	Metolachlor	124	108	F/P	71 - 124
1938585	Metribuzin	158	214	F/F	61 - 140
1938585	Mevinphos	95.3	86.5	P/P	38 - 130
1938585	Molinate	106	85.1	F/P	23 - 99.0
1938585	Norflurazon	122	107	P/P	39 - 139
1938585	Parathion Ethyl	100	114	P/F	75 - 111
1938585	Parathion Methyl	105	113	P/P	64 - 130
1938585	Pendimethalin	106	118	P/P	26 - 173
1938585	Phorate	91.5	99.0	P/P	43 - 127
1938585	Prometon	127	109	P/P	50 - 144
1938585	Prometryn	138	115	F/P	69 - 126
1938585	Simazine	145	129	P/P	51 - 152
1938585	Terbufos	98.8	103	P/P	54 - 125
1938585	Terbutylazine	120	116	F/F	76 - 113

Reference Method: EPA 8270D

Batch ID: P333744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1937357	Aldrin	81.4	77.6	P/P	22 - 97.0
1937357	Alpha-BHC	82.1	78.7	P/P	43 - 132
1937357	Alpha-Chlordane	104	98.6	P/P	36 - 126
1937357	Beta-BHC	101	87.6	P/P	41 - 150
1937357	Carbophenothion	139	125	P/P	13 - 196
1937357	Chlorothalonil	5.42	13.9	F/P	10 - 266
1937357	Cypermethrin	109	105	P/P	37 - 161
1937357	DDD-p,p'	126	118	P/P	44 - 131
1937357	DDE-p,p'	112	106	P/P	32 - 127
1937357	DDT-p,p'	95.1	94.6	P/P	45 - 116
1937357	Delta-BHC	82.2	85.3	P/P	50 - 201
1937357	Dicofol	171	161	F/F	10 - 100
1937357	Dieldrin	105	98.8	P/P	39 - 142
1937357	Endosulfan I	104	99.0	P/P	51 - 139
1937357	Endosulfan II	95.6	82.8	P/P	49 - 155
1937357	Endosulfan Sulfate	87.4	79.6	P/P	54 - 136
1937357	Endrin	99.6	106	P/P	38 - 141
1937357	Endrin Aldehyde	89.5	79.6	P/P	14 - 152
1937357	Endrin Ketone	88.7	84.9	P/P	60 - 128
1937357	Gamma-BHC	80.0	81.7	P/P	48 - 157
1937357	Gamma-Chlordane	103	97.9	P/P	35 - 123
1937357	Heptachlor	80.5	76.3	P/P	25 - 112
1937357	Heptachlor Epoxide	102	96.1	P/P	48 - 125
1937357	Methoxychlor	106	102	P/P	52 - 127
1937357	Mirex	86.7	81.5	P/P	25 - 108
1937357	Permethrin	108	109	P/P	46 - 133
1937357	Trifluralin	87.5	84.9	P/P	29 - 254

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P333887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939132	Aldrin	50.9	59.2	P/P	22 - 97.0
1939132	Alpha-BHC	86.7	88.1	P/P	43 - 132
1939132	Alpha-Chlordane	83.5	97.0	P/P	36 - 126
1939132	Beta-BHC	109	107	P/P	41 - 150
1939132	Carbophenothion	96.6	109	P/P	13 - 196
1939132	Chlorothalonil	107	73.7	P/P	10 - 266
1939132	Cypermethrin	98.3	88.5	P/P	37 - 161
1939132	DDD-p,p'	95.2	109	P/P	44 - 131
1939132	DDE-p,p'	83.2	97.8	P/P	32 - 127
1939132	DDT-p,p'	94.6	93.6	P/P	45 - 116
1939132	Delta-BHC	101	103	P/P	50 - 201
1939132	Dicofol	77.7	98.2	P/P	10 - 100
1939132	Dieldrin	81.8	99.6	P/P	39 - 142
1939132	Endosulfan I	86.9	105	P/P	51 - 139
1939132	Endosulfan II	99.0	109	P/P	49 - 155
1939132	Endosulfan Sulfate	100	90.3	P/P	54 - 136
1939132	Endrin	82.1	101	P/P	38 - 141
1939132	Endrin Aldehyde	85.3	99.4	P/P	14 - 152
1939132	Endrin Ketone	98.6	88.3	P/P	60 - 128
1939132	Gamma-BHC	94.3	96.3	P/P	48 - 157
1939132	Gamma-Chlordane	82.7	96.7	P/P	35 - 123
1939132	Heptachlor	69.1	82.9	P/P	25 - 112
1939132	Heptachlor Epoxide	88.6	103	P/P	48 - 125
1939132	Methoxychlor	102	101	P/P	52 - 127
1939132	Mirex	78.7	74.7	P/P	25 - 108
1939132	Permethrin	97.0	87.7	P/P	46 - 133
1939132	Trifluralin	89.0	88.3	P/P	29 - 254

Reference Method: EPA 8270D
Batch ID: P333898

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939075	Acetochlor	101	105	P/P	74 - 123
1939075	Alachlor	87.9	91.2	P/P	73 - 124
1939075	Ametryn	83.0	74.4	P/P	56 - 149
1939075	Atrazine	131	127	F/F	73 - 124
1939075	Atrazine Desethyl	104	78.2	F/P	12 - 103
1939075	Azinphos Methyl	110	107	P/P	60 - 202
1939075	Bromacil	91.8	78.8	P/P	42 - 133
1939075	Butylate	21.5	36.0	P/P	10 - 85.0
1939075	Chlorpyrifos Ethyl	89.2	94.6	P/P	53 - 113
1939075	Chlorpyrifos Methyl	82.4	84.4	P/P	40 - 115
1939075	Cyanazine	198	175	P/P	22 - 210
1939075	Demeton	95.4	105	P/P	17 - 149
1939075	Diazinon	84.9	91.5	P/P	72 - 124
1939075	Disulfoton	80.2	85.8	P/P	43 - 139
1939075	EPTC	17.5	31.0	P/P	10 - 86.0
1939075	Ethion	99.4	97.2	P/P	65 - 131
1939075	Ethoprop	92.1	95.1	P/P	59 - 110
1939075	Fenamiphos	62.6	62.4	P/P	57 - 138
1939075	Fipronil	85.8	64.4	P/P	40 - 130
1939075	Fipronil Sulfide	81.6	57.5	P/P	36 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P333898

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939075	Fipronil Sulfone	67.1	39.7	P/P	16 - 145
1939075	Fonofos	104	109	P/P	60 - 112
1939075	Hexazinone	105	93.7	P/P	69 - 142
1939075	Malathion	102	98.1	P/P	68 - 132
1939075	Metalaxyl	73.0	77.7	P/P	66 - 118
1939075	Metolachlor	82.3	87.8	P/P	71 - 124
1939075	Metribuzin	198	176	F/F	61 - 140
1939075	Mevinphos	58.2	69.4	P/P	38 - 130
1939075	Molinate	32.6	53.3	P/P	23 - 99.0
1939075	Norflurazon	89.7	59.5	P/P	39 - 139
1939075	Parathion Ethyl	93.0	93.6	P/P	75 - 111
1939075	Parathion Methyl	101	98.9	P/P	64 - 130
1939075	Pendimethalin	86.6	87.9	P/P	26 - 173
1939075	Phorate	78.4	88.3	P/P	43 - 127
1939075	Prometon	101	94.9	P/P	50 - 144
1939075	Prometryn	96.7	96.8	P/P	69 - 126
1939075	Simazine	115	111	P/P	51 - 152
1939075	Terbufos	87.9	94.4	P/P	54 - 125
1939075	Terbuthylazine	99.9	100	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P333744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1937415	Chlordane	106	95.1	P/P	44 - 134
1937415	Toxaphene	139	127	P/P	36 - 147

Reference Method: EPA 8276
Batch ID: P333887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939346	Toxaphene	85.8	85.7	P/P	36 - 147

Reference Method: EPA 8321B
Batch ID: P333599

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938583	Glyphosate	84.8	85.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P333600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1937371	Pyraclostrobin	96.1	95.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P333921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938505	Sucralose	61.0	61.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P334010

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938845	Sucralose	56.4	54.2	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P333928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938577	Fluoride	96.8	98.0	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P334348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938567	Organic Carbon	101		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P333714

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938791	Acetaminophen	78.4	74.1	P/P	30 - 150
1938791	Diuron	98.7	89.4	P/P	40 - 150
1938791	Fluridone	124	122	P/P	40 - 150
1938791	Imidacloprid	151	156	P/P	40 - 160
1938791	Linuron	122	123	P/P	40 - 150
1938791	Primidone	125	116	P/P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P333877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938443	Acetaminophen	119	115	P/P	30 - 150
1938443	Carbamazepine	154	147	F/P	40 - 150
1938443	Diuron	115	106	P/P	40 - 150
1938443	Fenuron	106	105	P/P	40 - 150
1938443	Fluridone	125	108	P/P	40 - 150
1938443	Imidacloprid	173	167	F/F	40 - 160
1938443	Linuron	120	114	P/P	40 - 150
1938443	Primidone	130	117	P/P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938672	2,4-D	76.7	84.3	P/P	40 - 150
1938672	Bentazon	69.2	66.4	P/P	30 - 150
1938672	MCP	58.9	58.9	P/P	40 - 150
1938672	Triclopyr	54.0	59.8	P/P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335341

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938895	2,4-D	58.3	55.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P335341

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1938895	Bentazon	47.8	49.6	P/P	30 - 150
1938895	Carbamazepine	77.7	81.3	P/P	40 - 150
1938895	Fenuron	60.7	61.1	P/P	40 - 150
1938895	MCP	53.9	52.1	P/P	40 - 150
1938895	Triclopyr	54.1	49.3	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P333721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938515	Turbidity	0.959	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P333722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938565	Turbidity	3.74	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P333791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938912	Turbidity	5.19	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P333931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938886	Calcium	1.46	Spike	P	0 - 20
1938886	Iron	1.44	Spike	P	0 - 20
1938886	Magnesium	1.78	Spike	P	0 - 20
1938886	Potassium	1.26	Spike	P	0 - 20
1938886	Sodium	0.114	Spike	P	0 - 20
1938886	Zinc	0.862	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P333931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938886	Arsenic	1.06	Spike	P	0 - 20
1938886	Cadmium	0.713	Spike	P	0 - 20
1938886	Chromium	0.257	Spike	P	0 - 20
1938886	Copper	1.78	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P333931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938886	Lead	1.58	Spike	P	0 - 20
1938886	Nickel	0.801	Spike	P	0 - 20
1938886	Silver	1.35	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333837

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938621	Chloride	0.470	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938621	Sulfate	0.371	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938812	Chloride	0.972	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939076	Chloride	0.122	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P333851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938812	Sulfate	1.02	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938573	Ammonia-N	0.678	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
--------------------------	-----------	-----------	-------------------	-----------	----------------

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938706	Ammonia-N	0.133	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939032	Ammonia-N	0.520	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938425	Kjeldahl Nitrogen	0.997	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938616	Kjeldahl Nitrogen	5.63	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334097

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938568	NO2NO3-N	0.662	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334181

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938425	NO2NO3-N	0.454	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938706	Total-P	2.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939035	Total-P	0.406	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P333756

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938708	O-Phosphate-P	0.493	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P333817

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939039	O-Phosphate-P	1.89	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P333676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938585	Acetochlor	13.9	Spike	P	0 - 30
1938585	Alachlor	13.1	Spike	P	0 - 30
1938585	Ametryn	11.8	Spike	P	0 - 30
1938585	Atrazine	4.61	Spike	P	0 - 30
1938585	Atrazine Desethyl	31.7	Spike	F	0 - 30
1938585	Azinphos Methyl	15.7	Spike	P	0 - 30
1938585	Bromacil	10.7	Spike	P	0 - 30
1938585	Butylate	26.9	Spike	P	0 - 30
1938585	Chlorpyrifos Ethyl	1.30	Spike	P	0 - 30
1938585	Chlorpyrifos Methyl	5.16	Spike	P	0 - 30
1938585	Cyanazine	28.0	Spike	P	0 - 30
1938585	Demeton	6.79	Spike	P	0 - 30
1938585	Diazinon	7.76	Spike	P	0 - 30
1938585	Disulfoton	17.4	Spike	P	0 - 30
1938585	EPTC	19.4	Spike	P	0 - 30
1938585	Ethion	6.06	Spike	P	0 - 30
1938585	Ethoprop	2.31	Spike	P	0 - 30
1938585	Fenamiphos	13.1	Spike	P	0 - 30
1938585	Fipronil	6.91	Spike	P	0 - 30
1938585	Fipronil Sulfide	8.28	Spike	P	0 - 30
1938585	Fipronil Sulfone	5.91	Spike	P	0 - 30
1938585	Fonofos	8.40	Spike	P	0 - 30
1938585	Hexazinone	1.96	Spike	P	0 - 30
1938585	Malathion	4.38	Spike	P	0 - 30
1938585	Metalaxyl	8.35	Spike	P	0 - 30
1938585	Metolachlor	13.3	Spike	P	0 - 30
1938585	Metribuzin	30.1	Spike	F	0 - 30
1938585	Mevinphos	9.73	Spike	P	0 - 30
1938585	Molinate	22.1	Spike	P	0 - 30
1938585	Norflurazon	13.2	Spike	P	0 - 30
1938585	Parathion Ethyl	12.6	Spike	P	0 - 30
1938585	Parathion Methyl	7.76	Spike	P	0 - 30
1938585	Pendimethalin	11.1	Spike	P	0 - 30
1938585	Phorate	7.87	Spike	P	0 - 30
1938585	Prometon	15.1	Spike	P	0 - 30
1938585	Prometryn	17.9	Spike	P	0 - 30
1938585	Simazine	11.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P333676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938585	Terbufos	4.55	Spike	P	0 - 30
1938585	Terbutylazine	3.37	Spike	P	0 - 30
LFB	Acetochlor	5.66	LCS	P	0 - 30
LFB	Alachlor	4.21	LCS	P	0 - 30
LFB	Ametryn	8.36	LCS	P	0 - 30
LFB	Atrazine	12.9	LCS	P	0 - 30
LFB	Atrazine Desethyl	48.9	LCS	F	0 - 30
LFB	Azinphos Methyl	17.6	LCS	P	0 - 30
LFB	Bromacil	3.80	LCS	P	0 - 30
LFB	Butylate	5.98	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	8.23	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	16.2	LCS	P	0 - 30
LFB	Cyanazine	81.2	LCS	F	0 - 30
LFB	Demeton	6.18	LCS	P	0 - 30
LFB	Diazinon	9.03	LCS	P	0 - 30
LFB	Disulfoton	10.2	LCS	P	0 - 30
LFB	EPTC	3.40	LCS	P	0 - 30
LFB	Ethion	4.62	LCS	P	0 - 30
LFB	Ethoprop	23.0	LCS	P	0 - 30
LFB	Fenamiphos	6.00	LCS	P	0 - 30
LFB	Fipronil	4.73	LCS	P	0 - 30
LFB	Fipronil Sulfide	19.9	LCS	P	0 - 30
LFB	Fipronil Sulfone	3.83	LCS	P	0 - 30
LFB	Fonofos	27.2	LCS	P	0 - 30
LFB	Hexazinone	3.16	LCS	P	0 - 30
LFB	Malathion	3.03	LCS	P	0 - 30
LFB	Metalaxyl	4.17	LCS	P	0 - 30
LFB	Metolachlor	3.58	LCS	P	0 - 30
LFB	Metribuzin	62.8	LCS	F	0 - 30
LFB	Mevinphos	23.9	LCS	P	0 - 30
LFB	Molinate	11.3	LCS	P	0 - 30
LFB	Norflurazon	1.65	LCS	P	0 - 30
LFB	Parathion Ethyl	10.3	LCS	P	0 - 30
LFB	Parathion Methyl	14.2	LCS	P	0 - 30
LFB	Pendimethalin	11.4	LCS	P	0 - 30
LFB	Phorate	15.4	LCS	P	0 - 30
LFB	Prometon	1.62	LCS	P	0 - 30
LFB	Prometryn	1.22	LCS	P	0 - 30
LFB	Simazine	6.95	LCS	P	0 - 30
LFB	Terbufos	16.5	LCS	P	0 - 30
LFB	Terbutylazine	10.7	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P333744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1937357	Aldrin	4.83	Spike	P	0 - 30
1937357	Alpha-BHC	4.28	Spike	P	0 - 30
1937357	Alpha-Chlordane	5.11	Spike	P	0 - 30
1937357	Beta-BHC	14.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P333744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1937357	Carbophenothion	10.6	Spike	P	0 - 30
1937357	Chlorothalonil	87.8	Spike	F	0 - 30
1937357	Cypermethrin	3.74	Spike	P	0 - 30
1937357	DDD-p,p'	6.67	Spike	P	0 - 30
1937357	DDE-p,p'	5.63	Spike	P	0 - 30
1937357	DDT-p,p'	0.514	Spike	P	0 - 30
1937357	Delta-BHC	3.65	Spike	P	0 - 30
1937357	Dicofol	6.52	Spike	P	0 - 30
1937357	Dieldrin	6.00	Spike	P	0 - 30
1937357	Endosulfan I	4.66	Spike	P	0 - 30
1937357	Endosulfan II	14.4	Spike	P	0 - 30
1937357	Endosulfan Sulfate	9.29	Spike	P	0 - 30
1937357	Endrin	5.82	Spike	P	0 - 30
1937357	Endrin Aldehyde	11.6	Spike	P	0 - 30
1937357	Endrin Ketone	4.36	Spike	P	0 - 30
1937357	Gamma-BHC	2.17	Spike	P	0 - 30
1937357	Gamma-Chlordane	5.37	Spike	P	0 - 30
1937357	Heptachlor	5.25	Spike	P	0 - 30
1937357	Heptachlor Epoxide	6.34	Spike	P	0 - 30
1937357	Methoxychlor	4.70	Spike	P	0 - 30
1937357	Mirex	6.13	Spike	P	0 - 30
1937357	Permethrin	0.890	Spike	P	0 - 30
1937357	Trifluralin	2.96	Spike	P	0 - 30
LFB	Aldrin	9.64	LCS	P	0 - 30
LFB	Alpha-BHC	2.20	LCS	P	0 - 30
LFB	Alpha-Chlordane	6.61	LCS	P	0 - 30
LFB	Beta-BHC	11.2	LCS	P	0 - 30
LFB	Carbophenothion	3.88	LCS	P	0 - 30
LFB	Chlorothalonil	23.8	LCS	P	0 - 30
LFB	Cypermethrin	8.08	LCS	P	0 - 30
LFB	DDD-p,p'	7.24	LCS	P	0 - 30
LFB	DDE-p,p'	18.9	LCS	P	0 - 30
LFB	DDT-p,p'	6.01	LCS	P	0 - 30
LFB	Delta-BHC	9.41	LCS	P	0 - 30
LFB	Dicofol	2.04	LCS	P	0 - 30
LFB	Dieldrin	4.57	LCS	P	0 - 30
LFB	Endosulfan I	6.22	LCS	P	0 - 30
LFB	Endosulfan II	7.41	LCS	P	0 - 30
LFB	Endosulfan Sulfate	8.48	LCS	P	0 - 30
LFB	Endrin	1.14	LCS	P	0 - 30
LFB	Endrin Aldehyde	8.71	LCS	P	0 - 30
LFB	Endrin Ketone	5.58	LCS	P	0 - 30
LFB	Gamma-BHC	4.12	LCS	P	0 - 30
LFB	Gamma-Chlordane	6.68	LCS	P	0 - 30
LFB	Heptachlor	5.23	LCS	P	0 - 30
LFB	Heptachlor Epoxide	3.46	LCS	P	0 - 30
LFB	Methoxychlor	8.56	LCS	P	0 - 30
LFB	Mirex	12.5	LCS	P	0 - 30
LFB	Permethrin	4.94	LCS	P	0 - 30
LFB	Trifluralin	6.41	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P333887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939132	Aldrin	15.1	Spike	P	0 - 30
1939132	Alpha-BHC	1.56	Spike	P	0 - 30
1939132	Alpha-Chlordane	14.9	Spike	P	0 - 30
1939132	Beta-BHC	1.94	Spike	P	0 - 30
1939132	Carbophenothion	11.9	Spike	P	0 - 30
1939132	Chlorothalonil	36.4	Spike	F	0 - 30
1939132	Cypermethrin	10.5	Spike	P	0 - 30
1939132	DDD-p,p'	13.3	Spike	P	0 - 30
1939132	DDE-p,p'	16.1	Spike	P	0 - 30
1939132	DDT-p,p'	1.16	Spike	P	0 - 30
1939132	Delta-BHC	1.41	Spike	P	0 - 30
1939132	Dicofol	23.3	Spike	P	0 - 30
1939132	Dieldrin	13.9	Spike	P	0 - 30
1939132	Endosulfan I	18.5	Spike	P	0 - 30
1939132	Endosulfan II	10.0	Spike	P	0 - 30
1939132	Endosulfan Sulfate	10.4	Spike	P	0 - 30
1939132	Endrin	20.6	Spike	P	0 - 30
1939132	Endrin Aldehyde	15.3	Spike	P	0 - 30
1939132	Endrin Ketone	11.0	Spike	P	0 - 30
1939132	Gamma-BHC	2.08	Spike	P	0 - 30
1939132	Gamma-Chlordane	15.6	Spike	P	0 - 30
1939132	Heptachlor	18.2	Spike	P	0 - 30
1939132	Heptachlor Epoxide	14.9	Spike	P	0 - 30
1939132	Methoxychlor	1.03	Spike	P	0 - 30
1939132	Mirex	5.21	Spike	P	0 - 30
1939132	Permethrin	10.1	Spike	P	0 - 30
1939132	Trifluralin	0.860	Spike	P	0 - 30
LFB	Aldrin	6.84	LCS	P	0 - 30
LFB	Alpha-BHC	1.01	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.18	LCS	P	0 - 30
LFB	Beta-BHC	11.1	LCS	P	0 - 30
LFB	Carbophenothion	24.5	LCS	P	0 - 30
LFB	Chlorothalonil	76.2	LCS	F	0 - 30
LFB	Cypermethrin	0.573	LCS	P	0 - 30
LFB	DDD-p,p'	3.22	LCS	P	0 - 30
LFB	DDE-p,p'	4.52	LCS	P	0 - 30
LFB	DDT-p,p'	6.21	LCS	P	0 - 30
LFB	Delta-BHC	0.827	LCS	P	0 - 30
LFB	Dicofol	2.35	LCS	P	0 - 30
LFB	Dieldrin	3.63	LCS	P	0 - 30
LFB	Endosulfan I	1.30	LCS	P	0 - 30
LFB	Endosulfan II	7.26	LCS	P	0 - 30
LFB	Endosulfan Sulfate	6.07	LCS	P	0 - 30
LFB	Endrin	5.98	LCS	P	0 - 30
LFB	Endrin Aldehyde	6.89	LCS	P	0 - 30
LFB	Endrin Ketone	5.81	LCS	P	0 - 30
LFB	Gamma-BHC	1.56	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.44	LCS	P	0 - 30
LFB	Heptachlor	7.67	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.806	LCS	P	0 - 30
LFB	Methoxychlor	8.13	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P333887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	8.60	LCS	P	0 - 30
LFB	Permethrin	4.38	LCS	P	0 - 30
LFB	Trifluralin	4.95	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P333898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939075	Acetochlor	4.07	Spike	P	0 - 30
1939075	Alachlor	3.75	Spike	P	0 - 30
1939075	Ametryn	11.0	Spike	P	0 - 30
1939075	Atrazine	3.41	Spike	P	0 - 30
1939075	Atrazine Desethyl	28.0	Spike	P	0 - 30
1939075	Azinphos Methyl	1.97	Spike	P	0 - 30
1939075	Bromacil	15.2	Spike	P	0 - 30
1939075	Butylate	50.7	Spike	F	0 - 30
1939075	Chlorpyrifos Ethyl	2.64	Spike	P	0 - 30
1939075	Chlorpyrifos Methyl	2.45	Spike	P	0 - 30
1939075	Cyanazine	12.0	Spike	P	0 - 30
1939075	Demeton	9.48	Spike	P	0 - 30
1939075	Diazinon	7.51	Spike	P	0 - 30
1939075	Disulfoton	6.72	Spike	P	0 - 30
1939075	EPTC	55.9	Spike	F	0 - 30
1939075	Ethion	2.24	Spike	P	0 - 30
1939075	Ethoprop	3.24	Spike	P	0 - 30
1939075	Fenamiphos	0.350	Spike	P	0 - 30
1939075	Fipronil	28.4	Spike	P	0 - 30
1939075	Fipronil Sulfide	34.7	Spike	F	0 - 30
1939075	Fipronil Sulfone	51.2	Spike	F	0 - 30
1939075	Fonofos	4.25	Spike	P	0 - 30
1939075	Hexazinone	11.7	Spike	P	0 - 30
1939075	Malathion	3.48	Spike	P	0 - 30
1939075	Metalaxyl	6.22	Spike	P	0 - 30
1939075	Metolachlor	5.77	Spike	P	0 - 30
1939075	Metribuzin	11.8	Spike	P	0 - 30
1939075	Mevinphos	17.5	Spike	P	0 - 30
1939075	Molinate	48.2	Spike	F	0 - 30
1939075	Norflurazon	31.3	Spike	F	0 - 30
1939075	Parathion Ethyl	0.592	Spike	P	0 - 30
1939075	Parathion Methyl	2.51	Spike	P	0 - 30
1939075	Pendimethalin	1.46	Spike	P	0 - 30
1939075	Phorate	11.9	Spike	P	0 - 30
1939075	Prometon	6.29	Spike	P	0 - 30
1939075	Prometryn	0.0801	Spike	P	0 - 30
1939075	Simazine	3.00	Spike	P	0 - 30
1939075	Terbufos	7.13	Spike	P	0 - 30
1939075	Terbuthylazine	0.153	Spike	P	0 - 30
LFB	Acetochlor	1.22	LCS	P	0 - 30
LFB	Alachlor	0.918	LCS	P	0 - 30
LFB	Ametryn	6.67	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P333898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Atrazine	11.5	LCS	P	0 - 30
LFB	Atrazine Desethyl	20.6	LCS	P	0 - 30
LFB	Azinphos Methyl	6.91	LCS	P	0 - 30
LFB	Bromacil	14.9	LCS	P	0 - 30
LFB	Butylate	0.439	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	0.383	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.92	LCS	P	0 - 30
LFB	Cyanazine	29.0	LCS	P	0 - 30
LFB	Demeton	47.6	LCS	F	0 - 30
LFB	Diazinon	5.19	LCS	P	0 - 30
LFB	Disulfoton	59.0	LCS	F	0 - 30
LFB	EPTC	0.223	LCS	P	0 - 30
LFB	Ethion	0.521	LCS	P	0 - 30
LFB	Ethoprop	6.53	LCS	P	0 - 30
LFB	Fenamiphos	15.2	LCS	P	0 - 30
LFB	Fipronil	2.16	LCS	P	0 - 30
LFB	Fipronil Sulfide	0.871	LCS	P	0 - 30
LFB	Fipronil Sulfone	2.27	LCS	P	0 - 30
LFB	Fonofos	6.42	LCS	P	0 - 30
LFB	Hexazinone	2.37	LCS	P	0 - 30
LFB	Malathion	26.3	LCS	P	0 - 30
LFB	Metaxyl	12.1	LCS	P	0 - 30
LFB	Metolachlor	4.62	LCS	P	0 - 30
LFB	Metribuzin	11.3	LCS	P	0 - 30
LFB	Mevinphos	6.46	LCS	P	0 - 30
LFB	Molinate	0.0379	LCS	P	0 - 30
LFB	Norflurazon	5.35	LCS	P	0 - 30
LFB	Parathion Ethyl	3.56	LCS	P	0 - 30
LFB	Parathion Methyl	6.51	LCS	P	0 - 30
LFB	Pendimethalin	5.34	LCS	P	0 - 30
LFB	Phorate	18.3	LCS	P	0 - 30
LFB	Prometon	4.39	LCS	P	0 - 30
LFB	Prometryn	0.816	LCS	P	0 - 30
LFB	Simazine	1.15	LCS	P	0 - 30
LFB	Terbufos	16.3	LCS	P	0 - 30
LFB	Terbuthylazine	3.97	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P333744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1937415	Chlordane	10.5	Spike	P	0 - 30
1937415	Toxaphene	8.89	Spike	P	0 - 30
LFB	Chlordane	13.8	LCS	P	0 - 30
LFB	Toxaphene	13.8	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P333887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939346	Chlordane	1.22	Spike	P	0 - 30
1939346	Toxaphene	0.190	Spike	P	0 - 30
LFB	Chlordane	5.12	LCS	P	0 - 30
LFB	Toxaphene	2.13	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P333599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938583	Glyphosate	1.35	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P333600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1937371	Pyraclostrobin	0.679	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P333921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938505	Sucralose	0.562	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P334010

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938845	Sucralose	1.95	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P333747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938656	Color (true)	1.49	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P333748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938658	Color (true)	0.160	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P333749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938657	Color (true)	0.530	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P333798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938888	Color (true)	2.09	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P333927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938577	Total Alkalinity	0.118	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P334315

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938658	TDS	5.17	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P334382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938989	TDS	2.34	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P333928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938577	Fluoride	0.982	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P334348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938567	Organic Carbon	0.284	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P333714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938791	Acetaminophen	5.64	Spike	P	0 - 30
1938791	Diuron	9.85	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P333714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938791	Fluridone	1.49	Spike	P	0 - 30
1938791	Imidacloprid	3.28	Spike	P	0 - 30
1938791	Linuron	0.586	Spike	P	0 - 30
1938791	Primidone	7.54	Spike	P	0 - 30

Reference Method: USGS O-2060-01
Batch ID: P333877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938443	Acetaminophen	3.60	Spike	P	0 - 30
1938443	Carbamazepine	4.38	Spike	P	0 - 30
1938443	Diuron	8.17	Spike	P	0 - 30
1938443	Fenuron	1.12	Spike	P	0 - 30
1938443	Fluridone	14.2	Spike	P	0 - 30
1938443	Imidacloprid	3.83	Spike	P	0 - 30
1938443	Linuron	4.53	Spike	P	0 - 30
1938443	Primidone	10.8	Spike	P	0 - 30

Reference Method: USGS O-2060-01
Batch ID: P335339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938672	2,4-D	5.24	Spike	P	0 - 30
1938672	Bentazon	2.28	Spike	P	0 - 30
1938672	MCPP	0.0	Spike	P	0 - 30
1938672	Triclopyr	10.2	Spike	P	0 - 30

Reference Method: USGS O-2060-01
Batch ID: P335341

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1938895	2,4-D	5.35	Spike	P	0 - 30
1938895	Bentazon	3.22	Spike	P	0 - 30
1938895	Carbamazepine	4.22	Spike	P	0 - 30
1938895	Fenuron	0.719	Spike	P	0 - 30
1938895	MCPP	3.35	Spike	P	0 - 30
1938895	Triclopyr	9.33	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

Quality Assurance Report Surrogates

Lab Sample ID: 1938670

Field Sample ID: G2SD101817-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	96.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Diuron-d6	77.7	P	30 - 160
EPA 8321B	Diuron-d6	107	P	30 - 160
EPA 8321B	Diuron-d6	77.7	P	30 - 160
EPA 8321B	Diuron-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	67.6	P	40 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	67.4	P	40 - 160
EPA 8321B	Sucralose-d6	67.4	P	40 - 160
USGS O-2060-01	2,4-D-d3	32.2	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	96.1	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	107	P	30 - 160
USGS O-2060-01	Diuron-d6	77.7	P	30 - 160
USGS O-2060-01	Diuron-d6	107	P	30 - 160
USGS O-2060-01	Primidone-d5	102	P	30 - 160
USGS O-2060-01	Sucralose-d6	67.4	P	40 - 160

Lab Sample ID: 1938671

Field Sample ID: G2SD101817-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Diuron-d6	76.1	P	30 - 160
EPA 8321B	Diuron-d6	104	P	30 - 160
EPA 8321B	Diuron-d6	76.1	P	30 - 160
EPA 8321B	Diuron-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.2	P	40 - 160
EPA 8321B	Primidone-d5	94.0	P	30 - 160
EPA 8321B	Primidone-d5	94.0	P	30 - 160
EPA 8321B	Sucralose-d6	63.6	P	40 - 160
EPA 8321B	Sucralose-d6	63.6	P	40 - 160
USGS O-2060-01	2,4-D-d3	39.5	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	102	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	102	P	30 - 160
USGS O-2060-01	Diuron-d6	76.1	P	30 - 160
USGS O-2060-01	Diuron-d6	104	P	30 - 160
USGS O-2060-01	Primidone-d5	94.0	P	30 - 160
USGS O-2060-01	Sucralose-d6	63.6	P	40 - 160

Lab Sample ID: 1938672

Field Sample ID: G2SD101817-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	119	P	30 - 160
EPA 8321B	Acetaminophen-d4	119	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1938672

Field Sample ID: G2SD101817-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbamazepine-d10	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	111	P	30 - 160
EPA 8321B	Diuron-d6	79.6	P	30 - 160
EPA 8321B	Diuron-d6	106	P	30 - 160
EPA 8321B	Diuron-d6	79.6	P	30 - 160
EPA 8321B	Diuron-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	30.4	F	40 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Sucralose-d6	65.7	P	40 - 160
EPA 8321B	Sucralose-d6	65.7	P	40 - 160
USGS O-2060-01	2,4-D-d3	65.0	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	119	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	111	P	30 - 160
USGS O-2060-01	Diuron-d6	79.6	P	30 - 160
USGS O-2060-01	Diuron-d6	106	P	30 - 160
USGS O-2060-01	Primidone-d5	110	P	30 - 160
USGS O-2060-01	Sucralose-d6	65.7	P	40 - 160

Lab Sample ID: 1938673

Field Sample ID: G2SD101817-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	116	P	30 - 160
EPA 8321B	Carbamazepine-d10	111	P	30 - 160
EPA 8321B	Diuron-d6	75.4	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	67.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	68.9	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	116	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	111	P	30 - 160
USGS O-2060-01	Diuron-d6	75.4	P	30 - 160
USGS O-2060-01	Primidone-d5	103	P	30 - 160
USGS O-2060-01	Sucralose-d6	67.0	P	40 - 160

Lab Sample ID: 1938674

Field Sample ID: G2SD101817-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	70.2	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	35.2	P	32 - 103
EPA 8276	Decachlorobiphenyl	79.8	P	31 - 100

Lab Sample ID: 1938675

Field Sample ID: G2SD101817-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	60.5	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	37.4	P	32 - 103
EPA 8276	Decachlorobiphenyl	81.8	P	31 - 100

Quality Assurance Report Surrogates

Lab Sample ID: 1938676

Field Sample ID: G2SD101817-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	73.6	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	35.4	P	32 - 103
EPA 8276	Decachlorobiphenyl	74.6	P	31 - 100

Lab Sample ID: 1938677

Field Sample ID: G2SD101817-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	83.2	P	53 - 135
EPA 8270D	Simazine-d10	88.7	P	71 - 126

Lab Sample ID: 1938678

Field Sample ID: G2SD101817-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	70.7	P	53 - 135
EPA 8270D	Simazine-d10	99.8	P	71 - 126

Lab Sample ID: 1938679

Field Sample ID: G2SD101817-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	89.0	P	53 - 135
EPA 8270D	Simazine-d10	94.8	P	71 - 126

Lab Sample ID: 1938894

Field Sample ID: G2SD101817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.2	P	30 - 160
EPA 8321B	Diuron-d6	108	P	30 - 160
EPA 8321B	Diuron-d6	76.1	P	30 - 160
EPA 8321B	Diuron-d6	108	P	30 - 160
EPA 8321B	Diuron-d6	76.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	5.11	F	40 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Sucralose-d6	49.0	P	40 - 160
EPA 8321B	Sucralose-d6	49.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	48.2	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	121	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	72.2	P	30 - 160
USGS O-2060-01	Diuron-d6	108	P	30 - 160
USGS O-2060-01	Diuron-d6	76.1	P	30 - 160
USGS O-2060-01	Primidone-d5	106	P	30 - 160
USGS O-2060-01	Sucralose-d6	49.0	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1938895
Field Sample ID: G2SD101817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.7	P	30 - 160
EPA 8321B	Diuron-d6	74.2	P	30 - 160
EPA 8321B	Primidone-d5	107	P	30 - 160
EPA 8321B	Sucralose-d6	50.3	P	40 - 160
USGS O-2060-01	2,4-D-d3	54.4	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	115	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	79.7	P	30 - 160
USGS O-2060-01	Diuron-d6	74.2	P	30 - 160
USGS O-2060-01	Primidone-d5	107	P	30 - 160
USGS O-2060-01	Sucralose-d6	50.3	P	40 - 160

Lab Sample ID: 1938896
Field Sample ID: G2SD101817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	77.2	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	64.4	P	32 - 103
EPA 8276	Decachlorobiphenyl	58.8	P	31 - 100

Lab Sample ID: 1938897
Field Sample ID: G2SD101817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	97.0	P	53 - 135
EPA 8270D	Simazine-d10	89.7	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A79674
Included Lab Sample IDs: 1938656, 1938657, 1938658

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A79682
Included Lab Sample IDs: 1938662, 1938663, 1938664

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	98.1	P/P	90 - 110
O-Phosphate-P	98.5	100	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A79684
Included Lab Sample IDs: 1938656, 1938657, 1938658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.8	98.0	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A79684

Included Lab Sample IDs: 1938656, 1938657, 1938658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	100	P/P	85 - 115
Color (true)	100	97.8	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A79698

Included Lab Sample IDs: 1938888

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	100	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A79699

Included Lab Sample IDs: 1938888

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.8	99.3	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A79712

Included Lab Sample IDs: 1938890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	96.3	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A79726

Included Lab Sample IDs: 1938656, 1938657, 1938658, 1938888

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	103	P/P	90 - 110
Chloride	102	103	P/P	90 - 110
Chloride	103	103	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A79738

Included Lab Sample IDs: 1938670, 1938671, 1938672, 1938894

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	96.8	99.2	P/P	60 - 150
Pyraclostrobin	99.2	99.4	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A79740

Included Lab Sample IDs: 1938670, 1938671, 1938672, 1938894

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	105	108	P/P	70 - 160
Glyphosate	98.4	105	P/P	70 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A79765

Included Lab Sample IDs: 1938656, 1938657, 1938658, 1938888

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: A79765

Included Lab Sample IDs: 1938656, 1938657, 1938658, 1938888

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.0	P/P	90 - 110
Fluoride	98.6	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A79811

Included Lab Sample IDs: 1938692, 1938693, 1938694, 1938898

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Calcium	102	101	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Magnesium	103	102	P/P	90 - 110
Potassium	102	102	P/P	90 - 110
Sodium	104	105	P/P	90 - 110
Zinc	97.6	97.6	P/P	90 - 110
Zinc	97.6	98.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A79814

Included Lab Sample IDs: 1938659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A79823

Included Lab Sample IDs: 1938659, 1938660, 1938661

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A79825

Included Lab Sample IDs: 1938659, 1938660, 1938661, 1938889

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A79840

Included Lab Sample IDs: 1938898

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Potassium	98.1	97.4	P/P	90 - 110
Sodium	97.1	97.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A79843

Included Lab Sample IDs: 1938660, 1938661, 1938889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.8	P/P	90 - 110
Ammonia-N	99.7	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A79849

Included Lab Sample IDs: 1938889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A79896

Included Lab Sample IDs: 1938659, 1938660, 1938661, 1938889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.2	98.5	P/P	90 - 110
Kjeldahl Nitrogen	97.6	99.2	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A79905

Included Lab Sample IDs: 1938670, 1938671, 1938672, 1938673, 1938894, 1938895

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	111	116	P/P	60 - 150
Acetaminophen	114	111	P/P	60 - 150
Acetaminophen	115	113	P/P	60 - 150
Carbamazepine	115	118	P/P	60 - 150
Carbamazepine	118	119	P/P	60 - 150
Diuron	109	112	P/P	60 - 150
Diuron	112	113	P/P	60 - 150
Diuron	112	113	P/P	60 - 150
Fenuron	110	112	P/P	60 - 150
Fenuron	112	112	P/P	60 - 150
Fluridone	112	114	P/P	60 - 160
Fluridone	114	118	P/P	60 - 160
Fluridone	118	118	P/P	60 - 160
Fluridone	122	119	P/P	60 - 160
Imidacloprid	110	104	P/P	60 - 150
Imidacloprid	111	115	P/P	60 - 150
Imidacloprid	118	110	P/P	60 - 150
Linuron	109	118	P/P	60 - 150
Linuron	110	118	P/P	60 - 150
Linuron	118	126	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A79905

Included Lab Sample IDs: 1938670, 1938671, 1938672, 1938673, 1938894, 1938895

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	102	122	P/P	60 - 150
Primidone	107	102	P/P	60 - 150
Primidone	110	114	P/P	60 - 150

Reference Method: SM 5310 B-00

Run ID: A79911

Included Lab Sample IDs: 1938659, 1938660, 1938661, 1938889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	99.2	P/P	90 - 110
Organic Carbon	99.2	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A79920

Included Lab Sample IDs: 1938670, 1938671, 1938672, 1938673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	111	116	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A79950

Included Lab Sample IDs: 1938894, 1938895

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	92.6	85.3	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A79960

Included Lab Sample IDs: 1938674, 1938675, 1938676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.1		P	80 - 120
Alpha-BHC	97.7		P	80 - 120
Alpha-Chlordane	98.6		P	80 - 120
Beta-BHC	96.3		P	80 - 120
Carbophenothion	99.5		P	80 - 120
Chlorothalonil	99.8		P	80 - 120
Cypermethrin	97.2		P	80 - 120
DDD-p,p'	97.8		P	80 - 120
DDE-p,p'	100		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	100		P	80 - 120
Dicofol	88.4		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	96.2		P	80 - 120
Endosulfan II	99.4		P	80 - 120
Endosulfan Sulfate	98.6		P	80 - 120
Endrin	97.0		P	80 - 120
Endrin Aldehyde	93.9		P	80 - 120
Endrin Ketone	96.6		P	80 - 120
Gamma-BHC	92.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A79960

Included Lab Sample IDs: 1938674, 1938675, 1938676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-Chlordane	97.1		P	80 - 120
Heptachlor	96.1		P	80 - 120
Heptachlor Epoxide	98.1		P	80 - 120
Methoxychlor	106		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	97.8		P	80 - 120
Trifluralin	97.8		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A79972

Included Lab Sample IDs: 1938692, 1938693, 1938694, 1938898

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	105	105	P/P	90 - 110
Arsenic	105	106	P/P	90 - 110
Cadmium	104	105	P/P	90 - 110
Cadmium	105	106	P/P	90 - 110
Chromium	102	103	P/P	90 - 110
Chromium	103	105	P/P	90 - 110
Copper	102	103	P/P	90 - 110
Copper	103	104	P/P	90 - 110
Lead	98.0	99.2	P/P	90 - 110
Lead	99.2	99.9	P/P	90 - 110
Nickel	102	103	P/P	90 - 110
Nickel	103	104	P/P	90 - 110
Silver	96.0	97.9	P/P	90 - 110
Silver	97.9	98.5	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A79997

Included Lab Sample IDs: 1938896

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.4		P	80 - 120
Alpha-BHC	98.8		P	80 - 120
Alpha-Chlordane	94.4		P	80 - 120
Beta-BHC	101		P	80 - 120
Carbophenothion	86.6		P	80 - 120
Chlorothalonil	85.4		P	80 - 120
Cypermethrin	94.1		P	80 - 120
DDD-p,p'	93.7		P	80 - 120
DDE-p,p'	96.9		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	91.9		P	80 - 120
Dicofol	98.0		P	80 - 120
Dieldrin	97.5		P	80 - 120
Endosulfan I	91.5		P	80 - 120
Endosulfan II	83.9		P	80 - 120
Endosulfan Sulfate	100		P	80 - 120
Endrin	89.7		P	80 - 120
Endrin Aldehyde	90.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A79997

Included Lab Sample IDs: 1938896

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Ketone	99.1		P	80 - 120
Gamma-BHC	95.8		P	80 - 120
Gamma-Chlordane	95.7		P	80 - 120
Heptachlor	92.9		P	80 - 120
Heptachlor Epoxide	96.0		P	80 - 120
Methoxychlor	104		P	80 - 120
Mirex	99.7		P	80 - 120
Permethrin	99.2		P	80 - 120
Trifluralin	97.1		P	80 - 120

Reference Method: EPA 8276

Run ID: A79998

Included Lab Sample IDs: 1938674, 1938675, 1938676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	87.3		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 8276

Run ID: A80063

Included Lab Sample IDs: 1938896

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.2		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A80386

Included Lab Sample IDs: 1938670, 1938671, 1938672, 1938673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	103	P/P	50 - 150
2,4-D	105	112	P/P	50 - 150
Bentazon	111	116	P/P	50 - 150
Bentazon	119	110	P/P	50 - 150
MCP	103	103	P/P	50 - 150
MCP	111	107	P/P	50 - 150
Triclopyr	101	97.4	P/P	50 - 150
Triclopyr	116	108	P/P	50 - 150

Reference Method: EPA 8270D

Run ID: A80398

Included Lab Sample IDs: 1938897

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.5		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	95.9		P	80 - 120
Atrazine Desethyl	90.2		P	80 - 120
Azinphos Methyl	97.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80398

Included Lab Sample IDs: 1938897

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	103		P	80 - 120
Butylate	98.1		P	80 - 120
Chlorpyrifos Ethyl	97.2		P	80 - 120
Chlorpyrifos Methyl	97.2		P	80 - 120
Cyanazine	96.3		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	94.8		P	80 - 120
Disulfoton	95.7		P	80 - 120
EPTC	101		P	80 - 120
Ethion	91.2		P	80 - 120
Ethoprop	100		P	80 - 120
Fenamiphos	92.5		P	80 - 120
Fipronil	96.7		P	80 - 120
Fipronil Sulfide	92.8		P	80 - 120
Fipronil Sulfone	94.5		P	80 - 120
Fonofos	95.9		P	80 - 120
Hexazinone	96.1		P	80 - 120
Malathion	95.8		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	109		P	80 - 120
Metribuzin	97.5		P	80 - 120
Mevinphos	98.4		P	80 - 120
Molinate	103		P	80 - 120
Norflurazon	99.7		P	80 - 120
Parathion Ethyl	94.3		P	80 - 120
Parathion Methyl	94.7		P	80 - 120
Pendimethalin	88.8		P	80 - 120
Phorate	98.2		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	101		P	80 - 120
Simazine	94.1		P	80 - 120
Terbufos	94.8		P	80 - 120
Terbuthylazine	97.8		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A80422

Included Lab Sample IDs: 1938894, 1938895

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	101	P/P	50 - 150
2,4-D	103	100	P/P	50 - 150
Bentazon	130	140	P/P	50 - 150
Bentazon	140	140	P/P	50 - 150
Carbamazepine	123	147	P/P	60 - 150
Carbamazepine	147	130	P/P	60 - 150
Fenuron	94.2	97.1	P/P	60 - 150
Fenuron	98.1	94.2	P/P	60 - 150
MCPP	102	102	P/P	50 - 150
MCPP	109	102	P/P	50 - 150
Triclopyr	105	103	P/P	50 - 160
Triclopyr	108	105	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80497

Included Lab Sample IDs: 1938677, 1938678, 1938679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.6		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	97.7		P	80 - 120
Atrazine Desethyl	108		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Bromacil	105		P	80 - 120
Butylate	106		P	80 - 120
Chlorpyrifos Ethyl	95.5		P	80 - 120
Chlorpyrifos Methyl	96.3		P	80 - 120
Cyanazine	93.6		P	80 - 120
Demeton	90.6		P	80 - 120
Diazinon	111		P	80 - 120
Disulfoton	97.3		P	80 - 120
EPTC	102		P	80 - 120
Ethion	95.3		P	80 - 120
Ethoprop	96.7		P	80 - 120
Fenamiphos	96.9		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Sulfide	93.8		P	80 - 120
Fipronil Sulfone	94.5		P	80 - 120
Fonofos	99.9		P	80 - 120
Hexazinone	101		P	80 - 120
Malathion	97.9		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	112		P	80 - 120
Mevinphos	92.1		P	80 - 120
Molinate	108		P	80 - 120
Norflurazon	99.0		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	104		P	80 - 120
Phorate	99.8		P	80 - 120
Prometon	107		P	80 - 120
Prometryn	105		P	80 - 120
Simazine	101		P	80 - 120
Terbufos	94.7		P	80 - 120
Terbuthylazine	101		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	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				0.959	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							3.74	
	Turbidity							5.19	
EPA 200.7 Rev. 4.4	Calcium	105		106	106	104			1.46
	Iron	105		108	107	105			1.44
	Magnesium	107		109	109	106			1.78
	Potassium	103		108	103	102			1.26
	Sodium	103		105	104				0.114
	Zinc	98.2		101	99.8	99.0			0.862
EPA 200.8 Rev. 5.4	Arsenic	105		107	103	102			1.06
	Cadmium	106		108	107	106			0.713
	Chromium	102		105	102	101			0.257
	Copper	101		103	99.5	97.8			1.78
	Lead	98.4		102	99.6	98.0			1.58
	Nickel	103		104	101	100			0.801
	Silver	98.3		101	98.7	97.4			1.35
EPA 300.0 Rev. 2.1	Chloride	103		103	105			0.470	
	Chloride	101		95.3	96.3			0.972	
	Chloride	100		98.3	96.1			0.122	
	Sulfate	102		102	103			0.371	
	Sulfate	98.8		97.0				1.02	
	Sulfate	99.0		97.0	95.7				
EPA 350.1 Rev. 2.0	Ammonia-N	101		97.8	98.8				0.678
	Ammonia-N	94.7		97.4	97.3				0.133
	Ammonia-N	103		105	104				0.520
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106		93.7	94.8				0.997
	Kjeldahl Nitrogen	109		94.9	102				5.63
EPA 353.2 Rev. 2.0	NO2NO3-N	104		101					0.662
	NO2NO3-N	103		104	104				0.454
EPA 365.1 Rev. 2.0	Total-P	102		101	103				2.24
	Total-P	104		103	103				0.406
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0		98.4	99.0				0.493
	O-Phosphate-P	102		94.3	96.1				1.89
EPA 8270D	Acetochlor	137	130	153	133	5.66			13.9
	Acetochlor	98.6	97.4	101	105	1.22			4.07
	Alachlor	113	108	127	112	4.21			13.1
	Alachlor	86.6	87.4	87.9	91.2	0.918			3.75
	Aldrin	45.0	49.5	81.4	77.6	9.64			4.83
	Aldrin	43.9	41.0	50.9	59.2	6.84			15.1
	Alpha-BHC	92.4	94.4	82.1	78.7	2.20			4.28
	Alpha-BHC	86.3	87.2	86.7	88.1	1.01			1.56
	Alpha-Chlordane	86.1	92.0	104	98.6	6.61			5.11
	Alpha-Chlordane	86.2	84.4	83.5	97.0	2.18			14.9
	Ametryn	109	100	119	105	8.36			11.8
	Ametryn	62.0	66.2	83.0	74.4	6.67			11.0
	Atrazine	132	116	126	120	12.9			4.61
	Atrazine	120	107	131	127	11.5			3.41
	Atrazine Desethyl	121	73.3	70.1	103	48.9			31.7
	Atrazine Desethyl	75.8	93.2	104	78.2	20.6			28.0
	Azinphos Methyl	168	141	138	118	17.6			15.7
	Azinphos Methyl	132	123	110	107	6.91			1.97
	Beta-BHC	88.2	98.7	101	87.6	11.2			14.5
	Beta-BHC	96.7	108	109	107	11.1			1.94
	Bromacil	80.2	77.2	105	94.5	3.80			10.7
	Bromacil	69.7	80.9	91.8	78.8	14.9			15.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Butylate	64.2	60.5	85.6	65.3	5.98	26.9
	Butylate	33.4	33.5	21.5	36.0	0.439	50.7
	Carbophenothion	110	114	139	125	3.88	10.6
	Carbophenothion	80.8	103	96.6	109	24.5	11.9
	Chlorothalonil	47.5	60.3	5.42	13.9	23.8	87.8
	Chlorothalonil	37.3	83.2	107	73.7	76.2	36.4
	Chlorpyrifos Ethyl	110	101	111	110	8.23	1.30
	Chlorpyrifos Ethyl	85.4	85.1	89.2	94.6	0.383	2.64
	Chlorpyrifos Methyl	116	98.6	109	115	16.2	5.16
	Chlorpyrifos Methyl	87.8	86.2	82.4	84.4	1.92	2.45
	Cyanazine	238	100	160	212	81.2	28.0
	Cyanazine	289	216	198	175	29.0	12.0
	Cypermethrin	126	136	109	105	8.08	3.74
	Cypermethrin	85.8	86.3	98.3	88.5	0.573	10.5
	DDD-p,p'	96.9	104	126	118	7.24	6.67
	DDD-p,p'	96.7	99.9	95.2	109	3.22	13.3
	DDE-p,p'	78.8	95.3	112	106	18.9	5.63
	DDE-p,p'	90.5	86.5	83.2	97.8	4.52	16.1
	DDT-p,p'	92.5	98.2	95.1	94.6	6.01	0.514
	DDT-p,p'	93.4	87.7	94.6	93.6	6.21	1.16
	Delta-BHC	95.0	104	82.2	85.3	9.41	3.65
	Delta-BHC	94.3	95.1	101	103	0.827	1.41
	Demeton	105	98.4	111	119	6.18	6.79
	Demeton	84.7	52.2	95.4	105	47.6	9.48
	Diazinon	118	108	135	125	9.03	7.76
	Diazinon	87.0	82.6	84.9	91.5	5.19	7.51
	Dicofol	61.7	63.0	171	161	2.04	6.52
	Dicofol	81.9	83.8	77.7	98.2	2.35	23.3
	Dieldrin	94.6	99.1	105	98.8	4.57	6.00
	Dieldrin	87.9	91.1	81.8	99.6	3.63	13.9
	Disulfoton	90.1	81.4	86.0	102	10.2	17.4
	Disulfoton	79.4	43.2	80.2	85.8	59.0	6.72
	Endosulfan I	93.3	99.3	104	99.0	6.22	4.66
	Endosulfan I	92.5	91.3	86.9	105	1.30	18.5
	Endosulfan II	93.6	86.9	95.6	82.8	7.41	14.4
	Endosulfan II	90.3	97.1	99.0	109	7.26	10.0
	Endosulfan Sulfate	95.5	104	87.4	79.6	8.48	9.29
	Endosulfan Sulfate	88.9	94.5	100	90.3	6.07	10.4
	Endrin	88.3	89.3	99.6	106	1.14	5.82
	Endrin	87.1	92.5	82.1	101	5.98	20.6
	Endrin Aldehyde	97.4	106	89.5	79.6	8.71	11.6
	Endrin Aldehyde	85.6	91.7	85.3	99.4	6.89	15.3
	Endrin Ketone	95.9	101	88.7	84.9	5.58	4.36
	Endrin Ketone	89.0	94.3	98.6	88.3	5.81	11.0
	EPTC	65.5	63.3	85.3	70.2	3.40	19.4
	EPTC	33.1	33.2	17.5	31.0	0.223	55.9
	Ethion	111	106	112	119	4.62	6.06
	Ethion	93.0	93.5	99.4	97.2	0.521	2.24
	Ethoprop	114	90.3	100	103	23.0	2.31
	Ethoprop	85.9	80.5	92.1	95.1	6.53	3.24
	Fenamiphos	103	110	114	130	6.00	13.1
	Fenamiphos	108	93.0	62.6	62.4	15.2	0.350
	Fipronil	106	111	127	118	4.73	6.91
	Fipronil	88.0	86.2	85.8	64.4	2.16	28.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Fipronil Sulfide	99.6	122	108	118	19.9	8.28
	Fipronil Sulfide	83.9	83.2	81.6	57.5	0.871	34.7
	Fipronil Sulfone	89.3	92.8	97.7	104	3.83	5.91
	Fipronil Sulfone	77.1	78.9	67.1	39.7	2.27	51.2
	Fonofos	159	121	126	137	27.2	8.40
	Fonofos	109	102	104	109	6.42	4.25
	Gamma-BHC	77.8	81.0	80.0	81.7	4.12	2.17
	Gamma-BHC	90.6	89.1	94.3	96.3	1.56	2.08
	Gamma-Chlordane	84.1	89.9	103	97.9	6.68	5.37
	Gamma-Chlordane	85.4	84.1	82.7	96.7	1.44	15.6
	Heptachlor	72.8	76.7	80.5	76.3	5.23	5.25
	Heptachlor	76.8	71.1	69.1	82.9	7.67	18.2
	Heptachlor Epoxide	87.8	90.9	102	96.1	3.46	6.34
	Heptachlor Epoxide	87.8	87.1	88.6	103	0.806	14.9
	Hexazinone	129	125	136	139	3.16	1.96
	Hexazinone	91.1	89.0	105	93.7	2.37	11.7
	Malathion	108	111	116	121	3.03	4.38
	Malathion	77.4	101	102	98.1	26.3	3.48
	Metalaxyl	103	98.7	112	103	4.17	8.35
	Metalaxyl	81.4	72.2	73.0	77.7	12.1	6.22
	Methoxychlor	99.2	108	106	102	8.56	4.70
	Methoxychlor	101	93.2	102	101	8.13	1.03
	Metolachlor	104	108	124	108	3.58	13.3
	Metolachlor	82.6	78.9	82.3	87.8	4.62	5.77
	Metribuzin	234	122	158	214	62.8	30.1
	Metribuzin	124	138	198	176	11.3	11.8
	Mevinphos	109	85.5	95.3	86.5	23.9	9.73
	Mevinphos	62.5	66.7	58.2	69.4	6.46	17.5
	Mirex	76.4	86.6	86.7	81.5	12.5	6.13
	Mirex	76.8	70.4	78.7	74.7	8.60	5.21
	Molinate	89.3	79.8	106	85.1	11.3	22.1
	Molinate	46.2	46.2	32.6	53.3	0.0379	48.2
	Norflurazon	112	110	122	107	1.65	13.2
	Norflurazon	86.3	91.1	89.7	59.5	5.35	31.3
	Parathion Ethyl	105	94.8	100	114	10.3	12.6
	Parathion Ethyl	94.9	91.6	93.0	93.6	3.56	0.592
	Parathion Methyl	100	115	105	113	14.2	7.76
	Parathion Methyl	109	103	101	98.9	6.51	2.51
	Pendimethalin	108	96.1	106	118	11.4	11.1
	Pendimethalin	86.9	82.4	86.6	87.9	5.34	1.46
	Permethrin	110	116	108	109	4.94	0.890
	Permethrin	89.0	85.2	97.0	87.7	4.38	10.1
	Phorate	98.5	84.4	91.5	99.0	15.4	7.87
	Phorate	77.7	64.6	78.4	88.3	18.3	11.9
	Prometon	114	116	127	109	1.62	15.1
	Prometon	86.8	83.1	101	94.9	4.39	6.29
	Prometryn	114	116	138	115	1.22	17.9
	Prometryn	83.1	82.5	96.7	96.8	0.816	0.0801
	Simazine	132	124	145	129	6.95	11.7
	Simazine	93.9	95.0	115	111	1.15	3.00
	Terbufos	109	92.1	98.8	103	16.5	4.55
	Terbufos	86.5	73.5	87.9	94.4	16.3	7.13
	Terbuthylazine	124	111	120	116	10.7	3.37
	Terbuthylazine	96.6	92.8	99.9	100	3.97	0.153

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Trifluralin	81.1	86.5	87.5	84.9	6.41	2.96
	Trifluralin	86.3	82.1	89.0	88.3	4.95	0.860
EPA 8276	Chlordane	91.6	105	106	95.1	13.8	10.5
	Chlordane	77.6	73.8			5.12	1.22
	Toxaphene	117	135	139	127	13.8	8.89
	Toxaphene	91.8	89.9	85.8	85.7	2.13	0.190
EPA 8321B	Glyphosate	104		84.8	85.9		1.35
	Pyraclostrobin	95.2		96.1	95.4		0.679
	Sucralose	105		61.0	61.4		0.562
	Sucralose	88.4		56.4	54.2		1.95
SM 2120 B	Color (true)					1.49	
	Color (true)					0.160	
	Color (true)					0.530	
	Color (true)					2.09	
SM 2320 B-97	Total Alkalinity	102				0.118	
SM 2540 C-97	TDS					5.17	
	TDS					2.34	
SM 4500 F-C-97	Fluoride	99.8		96.8	98.0		0.982
SM 5310 B-00	Organic Carbon	98.4		101			0.284
USGS O-2060-01	2,4-D	97.9		76.7	84.3		5.24
	2,4-D	99.8		58.3	55.3		5.35
	Acetaminophen	52.7		78.4	74.1		5.64
	Acetaminophen	77.5		119	115		3.60
	Bentazon	84.9		69.2	66.4		2.28
	Bentazon	115		47.8	49.6		3.22
	Carbamazepine	128		154	147		4.38
	Carbamazepine	131		77.7	81.3		4.22
	Diuron	55.8		98.7	89.4		9.85
	Diuron	111		115	106		8.17
	Fenuron	109		106	105		1.12
	Fenuron	93.3		60.7	61.1		0.719
	Fluridone	110		124	122		1.49
	Fluridone	114		125	108		14.2
	Imidacloprid	107		151	156		3.28
	Imidacloprid	96.1		173	167		3.83
	Linuron	108		122	123		0.586
	Linuron	110		120	114		4.53
	MCP	81.1		58.9	58.9		0.0
	MCP	89.8		53.9	52.1		3.35
	Primidone	108		125	116		7.54
	Primidone	106		130	117		10.8
	Triclopyr	81.4		54.0	59.8		10.2
	Triclopyr	92.4		54.1	49.3		9.33

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1938656, 1938657, 1938658, 1938888
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1938692, 1938693, 1938694, 1938898
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1938692, 1938693, 1938694, 1938898

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1938656, 1938657, 1938658, 1938888
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1938656, 1938657, 1938658, 1938888
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1938659, 1938660, 1938661, 1938889
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1938659, 1938660, 1938661, 1938889
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1938659, 1938660, 1938661, 1938889
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1938659, 1938660, 1938661, 1938889
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1938662, 1938663, 1938664, 1938890
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1938674, 1938675, 1938676, 1938896
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1938677, 1938678, 1938679, 1938897
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1938674, 1938675, 1938676, 1938896
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1938670, 1938671, 1938672, 1938673, 1938894, 1938895
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1938670, 1938671, 1938672, 1938894
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1938670, 1938671, 1938672, 1938894
SM 2120 B / E31780	True Color measured at 450 nm	1938656, 1938657, 1938658, 1938888
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1938656, 1938657, 1938658, 1938888
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1938656, 1938657, 1938658, 1938888
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1938656, 1938657, 1938658, 1938888
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1938656, 1938657, 1938658, 1938888
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1938659, 1938660, 1938661, 1938889
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1938670, 1938671, 1938672, 1938673, 1938894, 1938895
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1938670, 1938671, 1938672, 1938673, 1938894, 1938895

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	10/19/2017			10/19/2017 18:20	DeAsia Armster	1938656, 1938657, 1938658
	10/20/2017			10/20/2017 13:47	DeAsia Armster	1938888
EPA 200.7 Rev. 4.4	10/19/2017	10/24/2017	Elliott D. Healy	10/25/2017	Betina Topolski	1938692, 1938693, 1938694
	10/20/2017	10/24/2017	Elliott D. Healy	10/25/2017	Betina Topolski	1938898
	10/20/2017	10/24/2017	Elliott D. Healy	10/26/2017	Betina Topolski	1938898
EPA 200.8 Rev. 5.4	10/19/2017	10/24/2017	Elliott D. Healy	11/01/2017	Nadine Brooks	1938692, 1938693, 1938694
	10/20/2017	10/24/2017	Elliott D. Healy	11/01/2017	Nadine Brooks	1938898
EPA 300.0 Rev. 2.1	10/19/2017			10/20/2017	Julia Storbeck	1938656, 1938657, 1938658
	10/20/2017			10/20/2017	Julia Storbeck	1938888
EPA 350.1 Rev. 2.0	10/19/2017			10/25/2017	Sofia Elnemr	1938659
	10/19/2017			10/26/2017	Sofia Elnemr	1938660, 1938661
	10/20/2017			10/26/2017	Sofia Elnemr	1938889
EPA 351.2 Rev. 2.0	10/19/2017	10/26/2017	Adrian Shelby	10/27/2017	Joseph Suarez	1938659, 1938660, 1938661
	10/20/2017	10/26/2017	Adrian Shelby	10/27/2017	Joseph Suarez	1938889
EPA 353.2 Rev. 2.0	10/19/2017			10/26/2017	Beverly Y. Sanders	1938659, 1938660, 1938661
	10/20/2017			10/27/2017	Beverly Y. Sanders	1938889
EPA 365.1 Rev. 2.0	10/19/2017	10/25/2017	Sima Feizi	10/26/2017	Lipi Saha	1938659, 1938660, 1938661
	10/20/2017	10/25/2017	Sima Feizi	10/26/2017	Lipi Saha	1938889
EPA 365.1 Rev. 2.0 dissolved	10/19/2017			10/19/2017 16:25	Megan Treadwell	1938662
	10/19/2017			10/19/2017 16:27	Megan Treadwell	1938663
	10/19/2017			10/19/2017 16:36	Megan Treadwell	1938664
	10/20/2017			10/20/2017 16:30	Megan Treadwell	1938890
EPA 8270D	10/19/2017	10/20/2017	Fe-Val Siddell	11/02/2017	Vandana T. Nagar	1938677
	10/19/2017	10/20/2017	Fe-Val Siddell	11/03/2017	Vandana T. Nagar	1938678, 1938679
	10/19/2017	10/20/2017	John Kaba	10/25/2017	Marek Topolski	1938674, 1938675, 1938676
	10/20/2017	10/24/2017	John Kaba	11/03/2017	Marek Topolski	1938897
	10/20/2017	10/25/2017	Fe-Val Siddell	10/27/2017	Marek Topolski	1938896
EPA 8276	10/19/2017	10/20/2017	John Kaba	10/27/2017	John P. Burgos	1938674, 1938675, 1938676
	10/20/2017	10/25/2017	Fe-Val Siddell	11/04/2017	Marek Topolski	1938896
EPA 8321B	10/19/2017	10/20/2017	Mohammad Ghaffari	10/20/2017	Mohammad Ghaffari	1938670, 1938671, 1938672
	10/19/2017	10/24/2017	Juyoung Kim	10/26/2017	Juyoung Kim	1938670, 1938671, 1938672, 1938673
	10/20/2017	10/20/2017	Mohammad Ghaffari	10/20/2017	Mohammad Ghaffari	1938894
	10/20/2017	10/20/2017	Mohammad Ghaffari	10/21/2017	Mohammad Ghaffari	1938894
	10/20/2017	10/27/2017	Julie Michelle Frank	10/28/2017	Juyoung Kim	1938894, 1938895
SM 2120 B	10/19/2017			10/19/2017 16:28	Tanya Welborn	1938656
	10/19/2017			10/19/2017 16:33	Tanya Welborn	1938658
	10/19/2017			10/19/2017 16:43	Tanya Welborn	1938657
	10/20/2017			10/20/2017 14:51	Tanya Welborn	1938888
SM 2320 B-97	10/19/2017			10/23/2017	Dale L. Simmons	1938656, 1938657
	10/19/2017			10/24/2017	Dale L. Simmons	1938658

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-97	10/20/2017			10/24/2017	Dale L. Simmons	1938888
SM 2540 C-97	10/19/2017			10/23/2017	DeAsia Armster	1938656, 1938657, 1938658
	10/20/2017			10/25/2017	Yijie Li	1938888
	10/19/2017			10/23/2017	DeAsia Armster	1938656, 1938657, 1938658
SM 2540 D-97	10/20/2017			10/25/2017	Yijie Li	1938888
	10/19/2017			10/23/2017	Dale L. Simmons	1938656, 1938657
	10/19/2017			10/24/2017	Dale L. Simmons	1938658
SM 4500 F-C-97	10/20/2017			10/24/2017	Dale L. Simmons	1938888
	10/19/2017			10/31/2017	Ping Hua	1938659, 1938660, 1938661
	10/20/2017			10/31/2017	Ping Hua	1938889
SM 5310 B-00	10/19/2017			10/28/2017	Julie Michelle Frank	1938670, 1938671, 1938672, 1938673
	10/19/2017			10/30/2017	Julie Michelle Frank	1938672, 1938673
	10/19/2017			11/17/2017	Julie Michelle Frank	1938672
USGS O-2060-01	10/19/2017	10/23/2017	Hoor Shaik	11/18/2017	Julie Michelle Frank	1938670, 1938671, 1938673
	10/20/2017	10/25/2017	Hoor Shaik	10/29/2017	Julie Michelle Frank	1938894, 1938895
	10/20/2017	11/15/2017	Hoor Shaik	11/17/2017	Juyoung Kim	1938894, 1938895
	10/20/2017	11/15/2017	Hoor Shaik	11/17/2017	Juyoung Kim	1938894, 1938895