

Chemical Analysis Report

NW-DIST-2016-09-21-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
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DOH Accreditation E31780

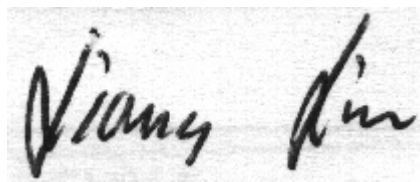
Event Description: **Eglin Run West WBID 786A 468A 495 874**
Request ID: **RQ-2016-09-19-32**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Suite 208A
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 20-OCT-2016 15:16

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

Case Narrative

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

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: TURKEY CREEK AB EGLIN RD 232

Collection Date/Time: 09/20/2016 10:45

Field ID: G3NW0093

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833100	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P311599	
	EPA 300.0 Rev. 2.1	Chloride	2.6		mg Cl/L	P311767	
		Sulfate	0.46	I	mg SO4/L	P311770	
	SM 2120 B	Color (true)	19		PCU	P311616	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P311803	
	SM 2540 C-97	TDS	15	U	mg/L	P312262	
	SM 2540 D-97	TSS	3	I	mg/L	P312266	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P311805	
1833105	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P311757	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.11	I	mg N/L	P311986	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P311898	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P312224	
	SM 5310 B-00	Organic Carbon	2.3		mg C/L	P312547	
1833110	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P311602	

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: JUNIPER CREEK @ HWY 85

Collection Date/Time: 09/20/2016 11:10

Field ID: G3NW0095

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833101	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P311599	
	EPA 300.0 Rev. 2.1	Chloride	2.4		mg Cl/L	P311767	
		Sulfate	0.63		mg SO4/L	P311770	
	SM 2120 B	Color (true)	21	A	PCU	P311616	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P311803	
	SM 2540 C-97	TDS	15	U	mg/L	P312262	
	SM 2540 D-97	TSS	3	I	mg/L	P312266	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P311805	
1833106	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P311757	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P311986	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.073		mg N/L	P311898	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P312224	
	SM 5310 B-00	Organic Carbon	2.3		mg C/L	P312547	
1833111	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P311603	

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: BASS LK DRAINAGE MOONEY DR HEAD

Collection Date/Time: 09/20/2016 12:00

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833102	EPA 180.1 Rev. 2.0	Turbidity	8.5		NTU	P311599	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P312187	
		Sulfate	15		mg SO4/L	P312192	

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833102	SM 2120 B	Color (true)	37		PCU	P311616	
	SM 2320 B-97	Total Alkalinity	36		mg CaCO3/L	P311803	
	SM 2540 C-97	TDS	119		mg/L	P312262	
	SM 2540 D-97	TSS	20	I	mg/L	P312266	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P311805	
1833107	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P311757	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	7.1		mg N/L	P312696	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.82		mg N/L	P311899	
	EPA 365.1 Rev. 2.0	Total-P	0.45		mg P/L	P312224	
	SM 5310 B-00	Organic Carbon	36		mg C/L	P312198	
1833112	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.013		mg P/L	P311602	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated due to sample matrix interference.

EPA 351.2 Rev. 2.0: The result was confirmed on 10/13/2016.

EPA 365.1 Rev. 2.0: Total-P: The result was confirmed on 10/05/2016.

SM 5310 B-00: The result was confirmed on 10/3/2016.

Sample Location: BASS LK DRAINAGE MOONEY DR HEAD

Collection Date/Time: 09/20/2016 12:05

Field ID: G3NW0097DUPLICATE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833103	EPA 180.1 Rev. 2.0	Turbidity	8.6		NTU	P311599	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P312187	
		Sulfate	15		mg SO4/L	P312192	
	SM 2120 B	Color (true)	37		PCU	P311616	
	SM 2320 B-97	Total Alkalinity	36		mg CaCO3/L	P311803	
	SM 2540 C-97	TDS	125		mg/L	P312262	
	SM 2540 D-97	TSS	21	I	mg/L	P312266	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P311805	
1833108	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P311757	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.9		mg N/L	P312696	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.85		mg N/L	P311899	
	EPA 365.1 Rev. 2.0	Total-P	0.36		mg P/L	P312224	
	SM 5310 B-00	Organic Carbon	27		mg C/L	P312198	
1833113	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.013		mg P/L	P311602	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated due to sample matrix interference.

EPA 351.2 Rev. 2.0: The result was confirmed on 10/13/2016.

EPA 365.1 Rev. 2.0: Total-P: The result was confirmed on 10/05/2016.

SM 5310 B-00: The result was confirmed on 10/3/2016.

Sample Location: BASS LK DRAINAGE MOONEY DR HEAD

Collection Date/Time: 09/20/2016 12:10

Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833104	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P311599	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P311775	

Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833104	EPA 300.0 Rev. 2.1	Sulfate	0.20	U	mg SO4/L	P311776	
	SM 2120 B	Color (true)	2.5	U	PCU	P311616	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P311803	
	SM 2540 C-97	TDS	15	U	mg/L	P312262	
	SM 2540 D-97	TSS	2	U	mg/L	P312266	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P311805	
1833109	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P311757	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P312102	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P312334	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P312224	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P312088	
1833114	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P311602	

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: BASS LK DRAINAGE MOONEY DR HEAD

Collection Date/Time: 09/20/2016 12:00

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833152	EPA 8321B	Glyphosate**	10	U	ug/L	P311485	
	USGS O-2060-01	2,4-D	0.048		ug/L	P311587	
		Diuron	0.0040	U	ug/L	P311587	
		2,4-DB	0.0020	U	ug/L	P311587	
		Fenuron	0.0080	U	ug/L	P311587	
		2,4,5-T	0.0020	U	ug/L	P311587	
		Acifluorfen	0.0020	U	ug/L	P311587	
		Imidacloprid	0.026		ug/L	P311587	MS
		Bentazon	0.017		ug/L	P311587	
		Linuron	0.0040	U	ug/L	P311587	
		Dichlorprop	0.0020	U	ug/L	P311587	
		Dinoseb	0.020	U	ug/L	P311587	
		MCPA	0.0040	U	ug/L	P311587	
		Acetaminophen**	0.0040	U	ug/L	P311587	
		MCPP	0.0040	U	ug/L	P311587	
		Carbamazepine**	0.0023		ug/L	P311587	
		Silvex	0.0020	U	ug/L	P311587	
		Primidone**	0.0080	U	ug/L	P311587	
		Fluridone**	0.0013	I	ug/L	P311587	
1833155	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	0.0020	U	ug/L	P311628	
		Alpha-BHC	0.0020	U	ug/L	P311628	
		Beta-BHC	0.0020	U	ug/L	P311628	
		Delta-BHC	0.0020	U	ug/L	P311628	
		Gamma-BHC	0.0020	U	ug/L	P311628	
		Carbophenothion	0.0060	UJ	ug/L	P311628	CCV

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833155	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Chlorothalonil	0.0080	U	ug/L	P311628	
		Cypermethrin	0.012	U	ug/L	P311628	
		DDD-p,p'	0.0040	U	ug/L	P311628	
		DDE-p,p'	0.0040	U	ug/L	P311628	
		DDT-p,p'	0.0040	U	ug/L	P311628	
		Dicofol	0.024	UJ	ug/L	P311628	CCV
		Dieldrin	0.0020	U	ug/L	P311628	
		Endosulfan I	0.0020	U	ug/L	P311628	
		Endosulfan II	0.0020	U	ug/L	P311628	
		Endosulfan Sulfate	0.0040	U	ug/L	P311628	
		Endrin	0.0040	U	ug/L	P311628	
		Endrin Aldehyde	0.0040	U	ug/L	P311628	
		Heptachlor	0.0020	U	ug/L	P311628	
		Heptachlor Epoxide	0.0020	U	ug/L	P311628	
		Methoxychlor	0.010	U	ug/L	P311628	
		Mirex	0.0040	U	ug/L	P311628	
		Permethrin	0.010	U	ug/L	P311628	
1833158	EPA 8270D	Ametryn	0.32	U	ng/L	P311481	
		Atrazine	1.9		ng/L	P311481	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P311481	
		Chlorpyrifos Methyl	0.097	U	ng/L	P311481	
		Disulfoton	0.32	U	ng/L	P311481	
		Ethion	0.15	U	ng/L	P311481	MS
		Ethoprop	0.097	U	ng/L	P311481	MS
		Hexazinone	6.0		ng/L	P311481	
		Malathion	0.34	U	ng/L	P311481	
		Metribuzin	0.19	U	ng/L	P311481	
		Mevinphos	0.48	U	ng/L	P311481	MS
		Norflurazon	0.48	U	ng/L	P311481	RPD
		Phorate	0.24	U	ng/L	P311481	
		Prometryn	0.19	U	ng/L	P311481	
		Simazine	0.48	U	ng/L	P311481	
		Atrazine Desethyl	1.5	U	ng/L	P311481	
		Prometon	0.87	U	ng/L	P311481	
		Fipronil	0.30	I	ng/L	P311481	
		Molinate	0.29	U	ng/L	P311481	
		Pendimethalin	1.5	U	ng/L	P311481	
		Terbufos	0.097	U	ng/L	P311481	
		EPTC	1.2	U	ng/L	P311481	
		Terbuthylazine	0.41	U	ng/L	P311481	
		Bromacil	0.48	U	ng/L	P311481	MS
		Fipronil Sulfide	0.36	I	ng/L	P311481	
		Fipronil Sulfone	1.3		ng/L	P311481	
		Alachlor	0.24	U	ng/L	P311481	

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833158	EPA 8270D	Azinphos Methyl	2.2	U	ng/L	P311481	
		Butylate	0.39	U	ng/L	P311481	
		Demeton	0.97	U	ng/L	P311481	
		Diazinon	0.12	U	ng/L	P311481	
		Fenamiphos	0.24	U	ng/L	P311481	
		Fonofos	0.19	U	ng/L	P311481	
		Metalaxyl	19		ng/L	P311481	
		Metolachlor	0.84	I	ng/L	P311481	MS
		Acetochlor	0.24	U	ng/L	P311481	
		Cyanazine	0.48	U	ng/L	P311481	
		Parathion Ethyl	0.24	U	ng/L	P311481	
		Parathion Methyl	0.24	U	ng/L	P311481	

Ref. Method and Comment:

USGS O-2060-01: Results from re-extraction after expiration: Carbamazepine = 0.0031 Q ug/L, fluoridone = 0.0035 Q ug/L and imidacloprid = 0.032 Q ug/L.

DEP SOP: GC-011-5 (based on EPA 608 and 617): Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine not assessed due to high content of this parameter in the sample spiked.

Sample Location: BASS LK DRAINAGE MOONEY DR HEAD

Collection Date/Time: 09/20/2016 12:05

Field ID: G3NW0097DUPLICATE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833153	EPA 8321B	Glyphosate**	10	U	ug/L	P311485	
	USGS O-2060-01	2,4-D	0.047		ug/L	P311587	
		Diuron	0.0040	U	ug/L	P311587	
		2,4-DB	0.0020	U	ug/L	P311587	
		Fenuron	0.0080	U	ug/L	P311587	
		2,4,5-T	0.0020	U	ug/L	P311587	
		Acifluorfen	0.0020	U	ug/L	P311587	
		Imidacloprid	0.040		ug/L	P311587	MS
		Bentazon	0.014		ug/L	P311587	
		Linuron	0.0040	U	ug/L	P311587	
		Dichlorprop	0.0020	U	ug/L	P311587	
		Dinoseb	0.020	U	ug/L	P311587	
		MCPA	0.0040	U	ug/L	P311587	
		Acetaminophen**	0.0040	U	ug/L	P311587	
		MCPD	0.0040	U	ug/L	P311587	
		Carbamazepine**	0.0032		ug/L	P311587	
		Silvex	0.0020	U	ug/L	P311587	
		Primidone**	0.0080	U	ug/L	P311587	
		Fluridone**	0.0037		ug/L	P311587	
1833156	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	0.0020	U	ug/L	P311628	
		Alpha-BHC	0.0020	U	ug/L	P311628	
		Beta-BHC	0.0020	U	ug/L	P311628	
		Delta-BHC	0.0020	U	ug/L	P311628	
		Gamma-BHC	0.0020	U	ug/L	P311628	

Field ID: G3NW0097DUPLICATE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833156	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Carbophenothion	0.0059	UJ	ug/L	P311628	CCV
		Chlorothalonil	0.0079	U	ug/L	P311628	
		Cypermethrin	0.012	U	ug/L	P311628	
		DDD-p,p'	0.0039	U	ug/L	P311628	
		DDE-p,p'	0.0039	U	ug/L	P311628	
		DDT-p,p'	0.0039	U	ug/L	P311628	
		Dicofol	0.024	UJ	ug/L	P311628	CCV
		Dieldrin	0.0020	U	ug/L	P311628	
		Endosulfan I	0.0020	U	ug/L	P311628	
		Endosulfan II	0.0020	U	ug/L	P311628	
		Endosulfan Sulfate	0.0039	U	ug/L	P311628	
		Endrin	0.0039	U	ug/L	P311628	
		Endrin Aldehyde	0.0039	U	ug/L	P311628	
		Heptachlor	0.0020	U	ug/L	P311628	
		Heptachlor Epoxide	0.0020	U	ug/L	P311628	
		Methoxychlor	0.0098	U	ug/L	P311628	
		Mirex	0.0039	U	ug/L	P311628	
		Permethrin	0.0098	U	ug/L	P311628	
1833159	EPA 8270D	Ametryn	0.32	U	ng/L	P311481	
		Atrazine	2.0		ng/L	P311481	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P311481	
		Chlorpyrifos Methyl	0.098	U	ng/L	P311481	
		Disulfoton	0.32	U	ng/L	P311481	
		Ethion	0.15	U	ng/L	P311481	MS
		Ethoprop	0.098	U	ng/L	P311481	MS
		Hexazinone	6.2		ng/L	P311481	
		Malathion	0.34	U	ng/L	P311481	
		Metribuzin	0.20	U	ng/L	P311481	
		Mevinphos	0.49	U	ng/L	P311481	MS
		Norflurazon	0.49	U	ng/L	P311481	RPD
		Phorate	0.25	U	ng/L	P311481	
		Prometryn	0.20	U	ng/L	P311481	
		Simazine	0.49	U	ng/L	P311481	
		Atrazine Desethyl	1.5	U	ng/L	P311481	
		Prometon	0.89	U	ng/L	P311481	
		Fipronil	0.25	I	ng/L	P311481	
		Molinate	0.30	U	ng/L	P311481	
		Pendimethalin	1.5	U	ng/L	P311481	
		Terbufos	0.098	U	ng/L	P311481	
		EPTC	1.2	U	ng/L	P311481	
		Terbutylazine	0.42	U	ng/L	P311481	
		Bromacil	0.49	U	ng/L	P311481	MS
		Fipronil Sulfide	0.37	I	ng/L	P311481	
		Fipronil Sulfone	1.4		ng/L	P311481	

Field ID: G3NW0097DUPLICATE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833159	EPA 8270D	Alachlor	0.25	U	ng/L	P311481	
		Azinphos Methyl	2.2	U	ng/L	P311481	
		Butylate	0.39	U	ng/L	P311481	
		Demeton	0.98	U	ng/L	P311481	
		Diazinon	0.12	U	ng/L	P311481	
		Fenamiphos	0.25	U	ng/L	P311481	
		Fonofos	0.20	U	ng/L	P311481	
		Metalaxyl	17		ng/L	P311481	
		Metolachlor	0.76	I	ng/L	P311481	MS
		Acetochlor	0.25	U	ng/L	P311481	
		Cyanazine	0.49	U	ng/L	P311481	
		Parathion Ethyl	0.25	U	ng/L	P311481	
		Parathion Methyl	0.25	U	ng/L	P311481	

Ref. Method and Comment:

USGS O-2060-01: Results from re-extraction after expiration: Carbamazepine = 0.0029 Q ug/L, fluoridone = 0.0040 Q ug/L and imidacloprid = 0.036 Q ug/L.

DEP SOP: GC-011-5 (based on EPA 608 and 617): Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine not assessed due to high content of this parameter in the sample spiked.

Sample Location: BASS LK DRAINAGE MOONEY DR HEAD

Collection Date/Time: 09/20/2016 12:10

Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833154	EPA 8321B	Glyphosate**	10	U	ug/L	P311485	
		2,4-D	0.0040	U	ug/L	P311587	
	USGS O-2060-01	Diuron	0.0040	U	ug/L	P311587	
		2,4-DB	0.0020	U	ug/L	P311587	
		Fenuron	0.0080	U	ug/L	P311587	
		2,4,5-T	0.0020	U	ug/L	P311587	
		Acifluorfen	0.0020	U	ug/L	P311587	
		Imidacloprid	0.0040	U	ug/L	P311587	MS
		Bentazon	0.0020	U	ug/L	P311587	
		Linuron	0.0040	U	ug/L	P311587	
		Dichlorprop	0.0020	U	ug/L	P311587	
		Dinoseb	0.020	U	ug/L	P311587	
		MCPA	0.0040	U	ug/L	P311587	
		Acetaminophen**	0.0040	U	ug/L	P311587	
		MCPP	0.0040	U	ug/L	P311587	
		Carbamazepine**	4.0E-04	U	ug/L	P311587	
		Silvex	0.0020	U	ug/L	P311587	
		Primidone**	0.0080	U	ug/L	P311587	
		Fluridone**	4.0E-04	U	ug/L	P311587	
1833157	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	0.0021	U	ug/L	P311628	
		Alpha-BHC	0.0021	U	ug/L	P311628	
		Beta-BHC	0.0021	U	ug/L	P311628	
		Delta-BHC	0.0021	U	ug/L	P311628	

Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833157	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Gamma-BHC	0.0021	U	ug/L	P311628	
		Carbophenothion	0.0063	UJ	ug/L	P311628	CCV
		Chlorothalonil	0.0084	U	ug/L	P311628	
		Cypermethrin	0.013	U	ug/L	P311628	
		DDD-p,p'	0.0042	U	ug/L	P311628	
		DDE-p,p'	0.0042	U	ug/L	P311628	
		DDT-p,p'	0.0042	U	ug/L	P311628	
		Dicofol	0.025	UJ	ug/L	P311628	CCV
		Dieldrin	0.0021	U	ug/L	P311628	
		Endosulfan I	0.0021	U	ug/L	P311628	
		Endosulfan II	0.0021	U	ug/L	P311628	
		Endosulfan Sulfate	0.0042	U	ug/L	P311628	
		Endrin	0.0042	U	ug/L	P311628	
		Endrin Aldehyde	0.0042	U	ug/L	P311628	
		Heptachlor	0.0021	U	ug/L	P311628	
		Heptachlor Epoxide	0.0021	U	ug/L	P311628	
		Methoxychlor	0.011	U	ug/L	P311628	
		Mirex	0.0042	U	ug/L	P311628	
		Permethrin	0.011	U	ug/L	P311628	
1833160	EPA 8270D	Ametryn	0.37	U	ng/L	P311481	
		Atrazine	0.28	U	ng/L	P311481	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P311481	
		Chlorpyrifos Methyl	0.11	U	ng/L	P311481	
		Disulfoton	0.37	U	ng/L	P311481	
		Ethion	0.17	U	ng/L	P311481	MS
		Ethoprop	0.11	U	ng/L	P311481	MS
		Hexazinone	0.56	U	ng/L	P311481	
		Malathion	0.39	U	ng/L	P311481	
		Metribuzin	0.23	U	ng/L	P311481	
		Mevinphos	0.56	U	ng/L	P311481	MS
		Norflurazon	0.56	U	ng/L	P311481	RPD
		Phorate	0.28	U	ng/L	P311481	
		Prometryn	0.23	U	ng/L	P311481	
		Simazine	0.56	U	ng/L	P311481	
		Atrazine Desethyl	1.7	U	ng/L	P311481	
		Prometon	1.0	U	ng/L	P311481	
		Fipronil	0.28	U	ng/L	P311481	
		Molinate	0.34	U	ng/L	P311481	
		Pendimethalin	1.7	U	ng/L	P311481	
		Terbufos	0.11	U	ng/L	P311481	
		EPTC	1.4	U	ng/L	P311481	
		Terbutylazine	0.48	U	ng/L	P311481	
		Bromacil	0.56	U	ng/L	P311481	MS
		Fipronil Sulfide	0.17	U	ng/L	P311481	

Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1833160	EPA 8270D	Fipronil Sulfone	0.17	U	ng/L	P311481	
		Alachlor	0.28	U	ng/L	P311481	
		Azinphos Methyl	2.5	U	ng/L	P311481	
		Butylate	0.45	U	ng/L	P311481	
		Demeton	1.1	U	ng/L	P311481	
		Diazinon	0.14	U	ng/L	P311481	
		Fenamiphos	0.28	U	ng/L	P311481	
		Fonofos	0.23	U	ng/L	P311481	
		Metalaxyl	0.23	U	ng/L	P311481	
		Metolachlor	0.28	U	ng/L	P311481	MS
		Acetochlor	0.28	U	ng/L	P311481	
		Cyanazine	0.56	U	ng/L	P311481	
		Parathion Ethyl	0.28	U	ng/L	P311481	
		Parathion Methyl	0.28	U	ng/L	P311481	

Ref. Method and Comment:

DEP SOP: GC-011-5 (based on EPA 608 and 617): Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine not assessed due to high content of this parameter in the sample spiked.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Batch ID: P311628

Component	Result	Code	Units
Aldrin	0.0020	U	ug/L
Alpha-BHC	0.0020	U	ug/L
Beta-BHC	0.0020	U	ug/L
Carbophenothion	0.0060	U	ug/L
Chlorothalonil	0.0080	U	ug/L
Cypermethrin	0.012	U	ug/L
DDD-p,p'	0.0040	U	ug/L
DDE-p,p'	0.0040	U	ug/L
DDT-p,p'	0.0040	U	ug/L
Delta-BHC	0.0020	U	ug/L
Dicofol	0.024	U	ug/L
Dieldrin	0.0020	U	ug/L
Endosulfan I	0.0020	U	ug/L
Endosulfan II	0.0020	U	ug/L
Endosulfan Sulfate	0.0040	U	ug/L
Endrin	0.0040	U	ug/L
Endrin Aldehyde	0.0040	U	ug/L
Gamma-BHC	0.0020	U	ug/L
Heptachlor	0.0020	U	ug/L
Heptachlor Epoxide	0.0020	U	ug/L
Methoxychlor	0.010	U	ug/L
Mirex	0.0040	U	ug/L
Permethrin	0.010	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P311599

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311767

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311770

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311775

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311776

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312187

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312192

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311757

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311986

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312102

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312696

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311898

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311899

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312334

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312224

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311602

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311603

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

Reference Method: EPA 8270D
Batch ID: P311481

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P311481

Component	Result	Code	Units
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	1.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.32	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.20	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	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8321B
Batch ID: P311485

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: SM 2120 B
Batch ID: P311616

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P311803

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P311803

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

Reference Method: SM 2540 C-97
Batch ID: P312262

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P312266

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P311805

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P312088

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

Reference Method: SM 5310 B-00
Batch ID: P312198

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

Reference Method: SM 5310 B-00
Batch ID: P312547

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

Reference Method: USGS O-2060-01
Batch ID: P311587

Component	Result	Code	Units
2,4,5-T	0.0020	U	ug/L
2,4-D	0.0040	U	ug/L
2,4-DB	0.0020	U	ug/L
Acetaminophen	0.0040	U	ug/L
Acifluorfen	0.0020	U	ug/L
Bentazon	0.0020	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Dichlorprop	0.0020	U	ug/L
Dinoseb	0.020	U	ug/L
Diuron	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P311587

Component	Result	Code	Units
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
MCPA	0.0040	U	ug/L
MCPP	0.0040	U	ug/L
Primidone	0.0080	U	ug/L
Silvex	0.0020	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P311628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	83.5	90.8	P/P	70 - 130
Alpha-BHC	82.3	91.2	P/P	70 - 130
Beta-BHC	104	113	P/P	70 - 130
DDD-p,p'	99.1	113	P/P	70 - 130
DDE-p,p'	98.2	108	P/P	70 - 130
DDT-p,p'	109	122	P/P	70 - 130
Delta-BHC	98.8	109	P/P	70 - 130
Dieldrin	95.9	105	P/P	70 - 130
Endosulfan I	98.4	109	P/P	70 - 130
Endosulfan II	103	114	P/P	70 - 130
Endosulfan Sulfate	124	126	P/P	70 - 130
Endrin	107	117	P/P	81 - 147
Endrin Aldehyde	107	112	P/P	70 - 130
Gamma-BHC	89.3	95.4	P/P	70 - 130
Heptachlor	74.9	84.6	P/P	70 - 130
Heptachlor Epoxide	94.7	104	P/P	70 - 130
Methoxychlor	124	132	P/P	86 - 145

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311767

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311770

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311775

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311776

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312192

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	92.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311757

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311986

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312102

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312696

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311898

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311899

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P312334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	108		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P312224

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P311602

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P311603

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

Reference Method: EPA 8270D
 Batch ID: P311481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.5	92.2	P/P	80 - 119
Alachlor	87.4	94.2	P/P	80 - 120
Ametryn	99.8	105	P/P	60 - 135
Atrazine	98.1	102	P/P	72 - 121
Atrazine Desethyl	69.4	73.3	P/P	14 - 124
Azinphos Methyl	98.0	96.6	P/P	74 - 186
Bromacil	96.8	98.4	P/P	38 - 125
Butylate	48.6	55.5	P/P	34 - 88.0
Chlorpyrifos Ethyl	85.4	87.3	P/P	53 - 108
Chlorpyrifos Methyl	78.1	78.5	P/P	29 - 119
Cyanazine	99.9	107	P/P	30 - 240
Demeton	85.2	82.1	P/P	35 - 127
Diazinon	87.4	94.6	P/P	75 - 121
Disulfoton	89.6	81.8	P/P	40 - 141
EPTC	44.9	51.3	P/P	36 - 96.0
Ethion	77.9	74.6	P/P	64 - 127
Ethoprop	90.1	87.4	P/P	65 - 108
Fenamiphos	91.3	91.9	P/P	62 - 140
Fipronil	92.6	100	P/P	59 - 127
Fipronil Sulfide	87.0	91.2	P/P	55 - 126
Fipronil Sulfone	77.7	78.8	P/P	56 - 127
Fonofos	88.9	89.5	P/P	64 - 111
Hexazinone	92.5	96.3	P/P	43 - 153
Malathion	98.3	95.4	P/P	70 - 129
Metaxyl	86.1	91.0	P/P	49 - 135
Metolachlor	84.6	89.6	P/P	81 - 120
Metribuzin	109	122	P/P	66 - 133
Mevinphos	94.5	89.2	P/P	33 - 128

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P311481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	56.2	61.8	P/P	46 - 101
Norflurazon	87.3	94.3	P/P	62 - 131
Parathion Ethyl	88.8	93.3	P/P	80 - 109
Parathion Methyl	89.6	92.1	P/P	76 - 126
Pendimethalin	80.7	79.9	P/P	47 - 137
Phorate	89.3	78.3	P/P	51 - 115
Prometon	93.7	101	P/P	67 - 123
Prometryn	98.4	107	P/P	66 - 122
Simazine	94.6	103	P/P	60 - 134
Terbufos	85.0	86.6	P/P	56 - 116
Terbuthylazine	90.4	96.3	P/P	77 - 114

Reference Method: EPA 8321B

Batch ID: P311485

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	82.8		P	40 - 140

Reference Method: SM 2320 B-97

Batch ID: P311803

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

Reference Method: SM 4500 F-C-97

Batch ID: P311805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	92 - 103

Reference Method: SM 5310 B-00

Batch ID: P312088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.3		P	85 - 115

Reference Method: SM 5310 B-00

Batch ID: P312198

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

Reference Method: SM 5310 B-00

Batch ID: P312547

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Reference Method: USGS O-2060-01

Batch ID: P311587

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

Reference Method: USGS O-2060-01
Batch ID: P311587

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	75.6		P	40 - 140
2,4-D	86.8		P	40 - 140
2,4-DB	105		P	40 - 140
Acetaminophen	116		P	40 - 140
Acifluorfen	49.2		P	40 - 140
Bentazon	97.2		P	40 - 140
Carbamazepine	116		P	40 - 140
Dichlorprop	86.4		P	40 - 140
Dinoseb	74.8		P	40 - 140
Diuron	76.4		P	40 - 140
Fenuron	106		P	40 - 140
Fluridone	84.4		P	40 - 140
Imidacloprid	94.0		P	40 - 160
Linuron	91.6		P	40 - 140
MCPA	83.2		P	40 - 140
MCPP	82.0		P	40 - 140
Primidone	96.0		P	40 - 140
Silvex	78.0		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P311628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833407	Aldrin	86.4	78.9	P/P	70 - 130
1833407	Alpha-BHC	85.8	83.8	P/P	70 - 130
1833407	Beta-BHC	113	100	P/P	70 - 130
1833407	DDD-p,p'	104	104	P/P	70 - 130
1833407	DDE-p,p'	106	102	P/P	70 - 130
1833407	DDT-p,p'	121	123	P/P	70 - 130
1833407	Delta-BHC	111	99.4	P/P	70 - 130
1833407	Dieldrin	98.4	95.0	P/P	70 - 130
1833407	Endosulfan I	108	98.1	P/P	70 - 130
1833407	Endosulfan II	107	105	P/P	70 - 130
1833407	Endosulfan Sulfate	119	117	P/P	70 - 130
1833407	Endrin	112	108	P/P	81 - 147
1833407	Endrin Aldehyde	104	101	P/P	70 - 130
1833407	Gamma-BHC	92.4	86.6	P/P	70 - 130
1833407	Heptachlor	85.7	80.9	P/P	70 - 130
1833407	Heptachlor Epoxide	102	93.8	P/P	70 - 130
1833407	Methoxychlor	122	126	P/P	86 - 145
1834007	Aldrin	84.3		P	70 - 130
1834007	Alpha-BHC	88.9		P	70 - 130
1834007	Beta-BHC	109		P	70 - 130
1834007	DDD-p,p'	104		P	70 - 130
1834007	DDE-p,p'	99.8		P	70 - 130
1834007	DDT-p,p'	129		P	70 - 130
1834007	Delta-BHC	99.3		P	70 - 130
1834007	Dieldrin	99.9		P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Batch ID: P311628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834007	Endosulfan I	103		P	70 - 130
1834007	Endosulfan II	110		P	70 - 130
1834007	Endosulfan Sulfate	118		P	70 - 130
1834007	Endrin	112		P	81 - 147
1834007	Endrin Aldehyde	101		P	70 - 130
1834007	Gamma-BHC	91.4		P	70 - 130
1834007	Heptachlor	79.3		P	70 - 130
1834007	Heptachlor Epoxide	101		P	70 - 130
1834007	Methoxychlor	125		P	86 - 145

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P311767

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832801	Chloride	98.7		P	90 - 110
1832827	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P311770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832801	Sulfate	91.3		P	90 - 110
1832827	Sulfate	96.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P311775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833184	Chloride	101		P	90 - 110
1833185	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P311776

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833184	Sulfate	98.1		P	90 - 110
1833185	Sulfate	96.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P312187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832856	Chloride	99.8		P	90 - 110
1833041	Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P312192

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832856	Sulfate	97.1		P	90 - 110
1833041	Sulfate	96.8		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311757

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833065	Ammonia-N	100	99.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833063	Kjeldahl Nitrogen	102	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832773	Kjeldahl Nitrogen	83.9	95.3	F/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312696

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1836057	Kjeldahl Nitrogen	102	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311898

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833105	NO2NO3-N	96.0	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311899

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833162	NO2NO3-N	90.6	93.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833336	NO2NO3-N	95.2	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312224

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833063	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833110	O-Phosphate-P	101	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P311603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833111	O-Phosphate-P	102	103	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P311481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833369	Acetochlor	78.7	84.1	P/P	77 - 125
1833369	Alachlor	78.9	76.9	P/P	75 - 127
1833369	Ametryn	94.2	98.1	P/P	53 - 150
1833369	Atrazine Desethyl	54.0	39.6	P/P	8.0 - 105
1833369	Azinphos Methyl	123	133	P/P	63 - 204
1833369	Bromacil	46.2	11.3	P/F	43 - 132
1833369	Butylate	49.8	50.9	P/P	7.0 - 87.0
1833369	Chlorpyrifos Ethyl	54.2	73.5	P/P	53 - 111
1833369	Chlorpyrifos Methyl	69.4	74.9	P/P	38 - 117
1833369	Cyanazine	71.0	59.0	P/P	18 - 222
1833369	Demeton	88.6	104	P/P	10 - 157
1833369	Diazinon	89.7	95.1	P/P	73 - 127
1833369	Disulfoton	85.3	87.3	P/P	43 - 141
1833369	EPTC	47.3	47.8	P/P	11 - 86.0
1833369	Ethion	66.1	66.4	F/F	68 - 130
1833369	Ethoprop	107	113	P/F	60 - 108
1833369	Fenamiphos	64.3	79.4	P/P	56 - 139
1833369	Fipronil	62.6	56.1	P/P	29 - 143
1833369	Fipronil Sulfide	49.5	41.9	P/P	35 - 129
1833369	Fipronil Sulfone	39.7	17.0	P/P	16 - 146
1833369	Fonofos	94.8	97.5	P/P	59 - 112
1833369	Hexazinone	102	112	P/P	68 - 145
1833369	Malathion	75.4	80.1	P/P	69 - 131
1833369	Metalaxyl	73.1	76.9	P/P	67 - 119
1833369	Metolachlor	62.6	70.8	F/F	77 - 124
1833369	Metribuzin	85.4	93.3	P/P	63 - 134
1833369	Mevinphos	130	125	F/P	40 - 127
1833369	Molinate	65.8	74.2	P/P	27 - 98.0
1833369	Norflurazon	53.7	39.6	P/P	39 - 141
1833369	Parathion Ethyl	90.0	98.6	P/P	74 - 113
1833369	Parathion Methyl	111	105	P/P	61 - 133
1833369	Pendimethalin	63.8	71.7	P/P	26 - 179
1833369	Phorate	105	118	P/P	44 - 126
1833369	Prometon	99.7	107	P/P	43 - 147
1833369	Prometryn	82.5	95.3	P/P	68 - 126
1833369	Simazine	88.0	95.5	P/P	47 - 156
1833369	Terbufos	95.3	102	P/P	53 - 125
1833369	Terbuthylazine	83.5	85.2	P/P	76 - 113

Reference Method: EPA 8321B
 Batch ID: P311485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832965	Glyphosate	68.8	70.4	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
 Batch ID: P311805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832801	Fluoride	98.6	98.0	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P312088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834070	Organic Carbon	99.8	99.0	P/P	85 - 115

Reference Method: SM 5310 B-00
 Batch ID: P312198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834614	Organic Carbon	96.8	99.6	P/P	85 - 115

Reference Method: SM 5310 B-00
 Batch ID: P312547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833096	Organic Carbon	113		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P311587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1834094	2,4,5-T	78.4	73.6	P/P	40 - 140
1834094	2,4-D	97.6	106	P/P	40 - 140
1834094	2,4-DB	48.4	50.4	P/P	40 - 140
1834094	Acetaminophen	63.2	50.8	P/P	40 - 140
1834094	Acifluorfen	124	124	P/P	40 - 140
1834094	Bentazon	119	123	P/P	40 - 140
1834094	Carbamazepine	93.2	98.4	P/P	40 - 140
1834094	Dichlorprop	99.2	106	P/P	40 - 140
1834094	Dinoseb	90.8	102	P/P	40 - 140
1834094	Diuron	53.9	56.3	P/P	40 - 140
1834094	Fenuron	79.6	82.8	P/P	40 - 140
1834094	Fluridone	65.6	65.6	P/P	40 - 140
1834094	Imidacloprid	173	180	F/F	40 - 160
1834094	Linuron	65.2	68.8	P/P	40 - 140
1834094	MCPA	88.8	90.4	P/P	40 - 140
1834094	MCPP	106	106	P/P	40 - 140
1834094	Primidone	86.8	91.2	P/P	40 - 140
1834094	Silvex	94.4	96.8	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
 Batch ID: P311628

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

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Batch ID: P311628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833407	Aldrin	6.60	Spike	P	0 - 30
1833407	Alpha-BHC	0.180	Spike	P	0 - 30
1833407	Beta-BHC	9.83	Spike	P	0 - 30
1833407	DDD-p,p'	3.05	Spike	P	0 - 30
1833407	DDE-p,p'	1.03	Spike	P	0 - 30
1833407	DDT-p,p'	4.47	Spike	P	0 - 30
1833407	Delta-BHC	8.28	Spike	P	0 - 30
1833407	Dieldrin	0.925	Spike	P	0 - 30
1833407	Endosulfan I	6.66	Spike	P	0 - 30
1833407	Endosulfan II	0.239	Spike	P	0 - 30
1833407	Endosulfan Sulfate	1.19	Spike	P	0 - 30
1833407	Endrin	1.35	Spike	P	0 - 30
1833407	Endrin Aldehyde	0.251	Spike	P	0 - 30
1833407	Gamma-BHC	4.09	Spike	P	0 - 30
1833407	Heptachlor	3.32	Spike	P	0 - 30
1833407	Heptachlor Epoxide	4.49	Spike	P	0 - 30
1833407	Methoxychlor	5.91	Spike	P	0 - 30
LFB	Aldrin	8.38	LCS	P	0 - 30
LFB	Alpha-BHC	10.3	LCS	P	0 - 30
LFB	Beta-BHC	8.41	LCS	P	0 - 30
LFB	DDD-p,p'	13.2	LCS	P	0 - 30
LFB	DDE-p,p'	9.21	LCS	P	0 - 30
LFB	DDT-p,p'	11.7	LCS	P	0 - 30
LFB	Delta-BHC	9.49	LCS	P	0 - 30
LFB	Dieldrin	9.29	LCS	P	0 - 30
LFB	Endosulfan I	10.6	LCS	P	0 - 30
LFB	Endosulfan II	10.1	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.41	LCS	P	0 - 30
LFB	Endrin	9.02	LCS	P	0 - 30
LFB	Endrin Aldehyde	4.51	LCS	P	0 - 30
LFB	Gamma-BHC	6.68	LCS	P	0 - 30
LFB	Heptachlor	12.2	LCS	P	0 - 30
LFB	Heptachlor Epoxide	9.67	LCS	P	0 - 30
LFB	Methoxychlor	6.15	LCS	P	0 - 30

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P311599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833095	Turbidity	6.06	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P311767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832801	Chloride	0.622	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832801	Sulfate	2.54	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833184	Chloride	1.15	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311776

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833184	Sulfate	0.497	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832856	Chloride	0.000337	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P312192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832856	Sulfate	0.523	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833065	Ammonia-N	1.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833063	Kjeldahl Nitrogen	1.74	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832773	Kjeldahl Nitrogen	8.62	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1836057	Kjeldahl Nitrogen	0.984	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833105	NO2NO3-N	1.28	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P311899

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833162	NO2NO3-N	2.54	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833336	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833063	Total-P	0.626	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833110	O-Phosphate-P	0.984	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833111	O-Phosphate-P	0.293	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P311481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833369	Acetochlor	6.55	Spike	P	0 - 30
1833369	Alachlor	2.64	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P311481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833369	Ametryn	4.03	Spike	P	0 - 30
1833369	Atrazine	2.23	Spike	P	0 - 30
1833369	Atrazine Desethyl	26.2	Spike	P	0 - 30
1833369	Azinphos Methyl	7.84	Spike	P	0 - 30
1833369	Bromacil	12.8	Spike	P	0 - 30
1833369	Butylate	2.26	Spike	P	0 - 30
1833369	Chlorpyrifos Ethyl	27.2	Spike	P	0 - 30
1833369	Chlorpyrifos Methyl	7.58	Spike	P	0 - 30
1833369	Cyanazine	18.5	Spike	P	0 - 30
1833369	Demeton	16.2	Spike	P	0 - 30
1833369	Diazinon	5.78	Spike	P	0 - 30
1833369	Disulfoton	2.33	Spike	P	0 - 30
1833369	EPTC	1.11	Spike	P	0 - 30
1833369	Ethion	0.490	Spike	P	0 - 30
1833369	Ethoprop	5.78	Spike	P	0 - 30
1833369	Fenamiphos	21.0	Spike	P	0 - 30
1833369	Fipronil	8.53	Spike	P	0 - 30
1833369	Fipronil Sulfide	9.54	Spike	P	0 - 30
1833369	Fipronil Sulfone	27.3	Spike	P	0 - 30
1833369	Fonofos	2.82	Spike	P	0 - 30
1833369	Hexazinone	9.68	Spike	P	0 - 30
1833369	Malathion	4.35	Spike	P	0 - 30
1833369	Metalaxyl	4.98	Spike	P	0 - 30
1833369	Metolachlor	9.28	Spike	P	0 - 30
1833369	Metribuzin	8.85	Spike	P	0 - 30
1833369	Mevinphos	3.90	Spike	P	0 - 30
1833369	Molinate	11.9	Spike	P	0 - 30
1833369	Norflurazon	30.3	Spike	F	0 - 30
1833369	Parathion Ethyl	9.14	Spike	P	0 - 30
1833369	Parathion Methyl	5.38	Spike	P	0 - 30
1833369	Pendimethalin	11.6	Spike	P	0 - 30
1833369	Phorate	12.0	Spike	P	0 - 30
1833369	Prometon	7.21	Spike	P	0 - 30
1833369	Prometryn	14.4	Spike	P	0 - 30
1833369	Simazine	8.21	Spike	P	0 - 30
1833369	Terbufos	6.36	Spike	P	0 - 30
1833369	Terbutylazine	1.99	Spike	P	0 - 30
LFB	Acetochlor	6.40	LCS	P	0 - 30
LFB	Alachlor	7.56	LCS	P	0 - 30
LFB	Ametryn	4.82	LCS	P	0 - 30
LFB	Atrazine	4.33	LCS	P	0 - 30
LFB	Atrazine Desethyl	5.56	LCS	P	0 - 30
LFB	Azinphos Methyl	1.42	LCS	P	0 - 30
LFB	Bromacil	1.56	LCS	P	0 - 30
LFB	Butylate	13.4	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.18	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.523	LCS	P	0 - 30
LFB	Cyanazine	6.82	LCS	P	0 - 30
LFB	Demeton	3.64	LCS	P	0 - 30
LFB	Diazinon	7.92	LCS	P	0 - 30
LFB	Disulfoton	9.16	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P311481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	EPTC	13.4	LCS	P	0 - 30
LFB	Ethion	4.38	LCS	P	0 - 30
LFB	Ethoprop	3.05	LCS	P	0 - 30
LFB	Fenamiphos	0.658	LCS	P	0 - 30
LFB	Fipronil	7.96	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.73	LCS	P	0 - 30
LFB	Fipronil Sulfone	1.46	LCS	P	0 - 30
LFB	Fonofos	0.672	LCS	P	0 - 30
LFB	Hexazinone	4.07	LCS	P	0 - 30
LFB	Malathion	3.00	LCS	P	0 - 30
LFB	Metaxyl	5.56	LCS	P	0 - 30
LFB	Metolachlor	5.65	LCS	P	0 - 30
LFB	Metribuzin	10.9	LCS	P	0 - 30
LFB	Mevinphos	5.87	LCS	P	0 - 30
LFB	Molinate	9.35	LCS	P	0 - 30
LFB	Norflurazon	7.62	LCS	P	0 - 30
LFB	Parathion Ethyl	4.93	LCS	P	0 - 30
LFB	Parathion Methyl	2.80	LCS	P	0 - 30
LFB	Pendimethalin	0.991	LCS	P	0 - 30
LFB	Phorate	13.0	LCS	P	0 - 30
LFB	Prometon	7.68	LCS	P	0 - 30
LFB	Prometryn	8.30	LCS	P	0 - 30
LFB	Simazine	8.52	LCS	P	0 - 30
LFB	Terbufos	1.81	LCS	P	0 - 30
LFB	Terbutylazine	6.28	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P311485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832965	Glyphosate	2.30	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P311616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833101	Color (true)	5.62	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P311803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832801	Total Alkalinity	0.177	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P312262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833186	TDS	1.78	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P311805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832801	Fluoride	0.525	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P312088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834070	Organic Carbon	0.652	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P312198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834614	Organic Carbon	2.05	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P312547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833096	Organic Carbon	0.673	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P311587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834094	2,4,5-T	6.32	Spike	P	0 - 30
1834094	2,4-D	6.15	Spike	P	0 - 30
1834094	2,4-DB	4.05	Spike	P	0 - 30
1834094	Acetaminophen	19.7	Spike	P	0 - 30
1834094	Acifluorfen	0.0	Spike	P	0 - 30
1834094	Bentazon	3.31	Spike	P	0 - 30
1834094	Carbamazepine	5.43	Spike	P	0 - 30
1834094	Dichlorprop	6.63	Spike	P	0 - 30
1834094	Dinoseb	12.0	Spike	P	0 - 30
1834094	Diuron	3.33	Spike	P	0 - 30
1834094	Fenuron	3.94	Spike	P	0 - 30
1834094	Fluridone	0.0	Spike	P	0 - 30
1834094	Imidacloprid	3.47	Spike	P	0 - 30
1834094	Linuron	5.37	Spike	P	0 - 30
1834094	MCPA	1.79	Spike	P	0 - 30
1834094	MCP	0.378	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P311587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1834094	Primidone	4.94	Spike	P	0 - 30
1834094	Silvex	2.51	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 1833152
Field Sample ID: G3NW0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	124	P	50 - 150
USGS O-2060-01	2,4-D-d3	110	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	68.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	89.4	P	40 - 160
USGS O-2060-01	Diuron-d6	44.2	P	40 - 150
USGS O-2060-01	Primidone-d5	87.0	P	40 - 150

Lab Sample ID: 1833153
Field Sample ID: G3NW0097DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	118	P	50 - 150
USGS O-2060-01	2,4-D-d3	113	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	80.0	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	117	P	40 - 160
USGS O-2060-01	Diuron-d6	66.6	P	40 - 150
USGS O-2060-01	Primidone-d5	91.4	P	40 - 150

Lab Sample ID: 1833154
Field Sample ID: FIELDBLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	132	P	50 - 150
USGS O-2060-01	2,4-D-d3	103	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	137	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	125	P	40 - 160
USGS O-2060-01	Diuron-d6	73.6	P	40 - 150
USGS O-2060-01	Primidone-d5	94.6	P	40 - 150

Lab Sample ID: 1833155
Field Sample ID: G3NW0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Decachlorobiphenyl	61.3	P	41 - 134

Quality Assurance Report Surrogates

Lab Sample ID: 1833156

Field Sample ID: G3NW0097DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Decachlorobiphenyl	53.6	P	41 - 134

Lab Sample ID: 1833157

Field Sample ID: FIELDBLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Decachlorobiphenyl	107	P	41 - 134

Lab Sample ID: 1833158

Field Sample ID: G3NW0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	74.7	P	65 - 132
EPA 8270D	Simazine-d10	100	P	72 - 128

Lab Sample ID: 1833159

Field Sample ID: G3NW0097DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	74.8	P	65 - 132
EPA 8270D	Simazine-d10	95.6	P	72 - 128

Lab Sample ID: 1833160

Field Sample ID: FIELDBLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	82.2	P	65 - 132
EPA 8270D	Simazine-d10	86.1	P	72 - 128

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A71758

Included Lab Sample IDs: 1833100, 1833101, 1833102, 1833103, 1833104

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A71759

Included Lab Sample IDs: 1833110, 1833111, 1833112, 1833113, 1833114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	100	P/P	90 - 110
O-Phosphate-P	99.9	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A71760

Included Lab Sample IDs: 1833100, 1833101, 1833102, 1833103, 1833104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	95.2	93.4	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A71789

Included Lab Sample IDs: 1833100, 1833101, 1833104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.5	99.7	P/P	90 - 110
Chloride	99.3	99.1	P/P	90 - 110
Sulfate	99.2	98.7	P/P	90 - 110
Sulfate	99.6	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A71807

Included Lab Sample IDs: 1833105, 1833106, 1833107, 1833108, 1833109

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

Reference Method: SM 2320 B-97

Run ID: A71811

Included Lab Sample IDs: 1833100, 1833101, 1833102, 1833103, 1833104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A71811

Included Lab Sample IDs: 1833100, 1833101, 1833102, 1833103, 1833104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A71836

Included Lab Sample IDs: 1833152, 1833153, 1833154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	144	156	P/P	70 - 160
Glyphosate	96.0	144	P/P	70 - 160

Reference Method: USGS O-2060-01

Run ID: A71853

Included Lab Sample IDs: 1833152, 1833153, 1833154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	77.2	76.8	P/P	60 - 150
Carbamazepine	104	109	P/P	60 - 150
Diuron	83.6	73.2	P/P	60 - 150
Fenuron	92.4	96.8	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A71853

Included Lab Sample IDs: 1833152, 1833153, 1833154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	78.0	79.2	P/P	60 - 150
Imidacloprid	85.6	80.8	P/P	60 - 150
Linuron	92.8	94.4	P/P	60 - 150
Primidone	70.4	83.6	P/P	60 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A71854

Included Lab Sample IDs: 1833105, 1833106, 1833107, 1833108

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	92.0	91.5	P/P	90 - 110
NO2NO3-N	97.5	95.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A71882

Included Lab Sample IDs: 1833102, 1833103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.7	98.1	P/P	90 - 110
Sulfate	98.4	99.0	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A71899

Included Lab Sample IDs: 1833152, 1833153, 1833154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	87.4	83.2	P/P	50 - 150
2,4-D	92.0	94.6	P/P	50 - 150
2,4-DB	87.0	129	P/P	50 - 150
Acifluorfen	107	120	P/P	50 - 150
Bentazon	93.2	99.2	P/P	50 - 150
Dichlorprop	83.6	83.2	P/P	50 - 150
Dinoseb	91.4	89.6	P/P	50 - 150
MCPA	91.0	96.0	P/P	50 - 150
MCPP	87.4	89.4	P/P	50 - 150
Silvex	88.6	79.8	P/P	50 - 150

Reference Method: SM 5310 B-00

Run ID: A71905

Included Lab Sample IDs: 1833109

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

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Run ID: A71917

Included Lab Sample IDs: 1833155, 1833156, 1833157

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.4	95.1	P/P	85 - 115
Alpha-BHC	98.1	95.7	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Run ID: A71917

Included Lab Sample IDs: 1833155, 1833156, 1833157

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	103	98.2	P/P	85 - 115
Carbophenothion	108	140*	P/F	90 - 110
Chlorothalonil	102	94.9	P/P	90 - 110
Cypermethrin	115	108	P/P	85 - 115
DDD-p,p'	104	94.4	P/P	85 - 115
DDE-p,p'	101	92.1	P/P	85 - 115
DDT-p,p'	104	91.9	P/P	85 - 115
Delta-BHC	98.1	94.7	P/P	85 - 115
Dicofol	102	83.6*	P/F	90 - 110
Dieldrin	101	94.3	P/P	85 - 115
Endosulfan I	101	95.6	P/P	85 - 115
Endosulfan II	103	94.5	P/P	85 - 115
Endosulfan Sulfate	104	94.8	P/P	85 - 115
Endrin	101	96.1	P/P	85 - 115
Endrin Aldehyde	104	94.7	P/P	85 - 115
Gamma-BHC	98.8	96.1	P/P	85 - 115
Heptachlor	100	100	P/P	85 - 115
Heptachlor Epoxide	101	96.2	P/P	85 - 115
Methoxychlor	106	94.1	P/P	90 - 110
Mirex	104	97.0	P/P	90 - 110
Permethrin	108	99.0	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A71943

Included Lab Sample IDs: 1833107, 1833108

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A71982

Included Lab Sample IDs: 1833107, 1833108

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A71983

Included Lab Sample IDs: 1833109

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A71984

Included Lab Sample IDs: 1833105, 1833106, 1833109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A72004
 Included Lab Sample IDs: 1833105, 1833106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	98.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A72009
 Included Lab Sample IDs: 1833109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.7	97.3	P/P	90 - 110

Reference Method: EPA 8270D
 Run ID: A72016
 Included Lab Sample IDs: 1833158, 1833159, 1833160

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	106		P	80 - 120
Atrazine Desethyl	99.7		P	80 - 120
Azinphos Methyl	91.5		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	103		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	98.1		P	80 - 120
Cyanazine	97.5		P	80 - 120
Demeton	95.9		P	80 - 120
Diazinon	102		P	80 - 120
Disulfoton	95.2		P	80 - 120
EPTC	103		P	80 - 120
Ethion	95.0		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	96.3		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fonofos	99.0		P	80 - 120
Hexazinone	98.1		P	80 - 120
Malathion	99.9		P	80 - 120
Metalaxyl	99.5		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	98.5		P	80 - 120
Mevinphos	99.4		P	80 - 120
Molinate	104		P	80 - 120
Norflurazon	98.9		P	80 - 120
Parathion Ethyl	96.5		P	80 - 120
Parathion Methyl	98.1		P	80 - 120
Pendimethalin	90.5		P	80 - 120
Phorate	100		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	107		P	80 - 120
Simazine	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A72016

Included Lab Sample IDs: 1833158, 1833159, 1833160

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbufos	96.6		P	80 - 120
Terbutylazine	99.6		P	80 - 120

Reference Method: SM 5310 B-00

Run ID: A72041

Included Lab Sample IDs: 1833105, 1833106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	108	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A72164

Included Lab Sample IDs: 1833107, 1833108

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.2	93.2	P/P	90 - 110

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery				LCS	Precision SMP	MS
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	83.5	90.8	84.3	86.4	78.9	8.38			6.60
	Alpha-BHC	82.3	91.2	88.9	85.8	83.8	10.3			0.180
	Beta-BHC	104	113	109	113	100	8.41			9.83
	DDD-p,p'	99.1	113	104	104	104	13.2			3.05
	DDE-p,p'	98.2	108	99.8	106	102	9.21			1.03
	DDT-p,p'	109	122	123	129	121	11.7			4.47
	Delta-BHC	98.8	109	99.3	111	99.4	9.49			8.28
	Dieldrin	95.9	105	99.9	98.4	95.0	9.29			0.925
	Endosulfan I	98.4	109	103	108	98.1	10.6			6.66
	Endosulfan II	103	114	110	107	105	10.1			0.239
	Endosulfan Sulfate	124	126	118	119	117	1.41			1.19
	Endrin	107	117	108	112	112	9.02			1.35
	Endrin Aldehyde	107	112	101	104	101	4.51			0.251
	Gamma-BHC	89.3	95.4	91.4	92.4	86.6	6.68			4.09
	Heptachlor	74.9	84.6	79.3	85.7	80.9	12.2			3.32
	Heptachlor Epoxide	94.7	104	101	102	93.8	9.67			4.49
EPA 180.1 Rev. 2.0 EPA 300.0 Rev. 2.1	Methoxychlor	124	132	125	122	126	6.15			5.91
	Turbidity								6.06	
	Chloride	99.2		98.7	99.7				0.622	
	Chloride	101		101	100				1.15	
	Chloride	97.3		99.8	99.6				0.0003	
	Sulfate	97.7		91.3	96.5				2.54	
	Sulfate	98.3		96.9	98.1				0.497	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 300.0 Rev. 2.1	Sulfate	92.6		97.1	96.8		0.523	
EPA 350.1 Rev. 2.0	Ammonia-N	101		100	99.3			1.13
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100		102	104			1.74
	Kjeldahl Nitrogen	94.6		83.9	95.3			8.62
	Kjeldahl Nitrogen	101		102	104			0.984
EPA 353.2 Rev. 2.0	NO2NO3-N	97.0		96.0	98.0			1.28
	NO2NO3-N	96.0		90.6	93.2			2.54
	NO2NO3-N	108		95.2	95.2			0.0
EPA 365.1 Rev. 2.0	Total-P	97.3		101	102			0.626
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		101	102			0.984
	O-Phosphate-P	101		102	103			0.293
EPA 8270D	Acetochlor	86.5	92.2	78.7	84.1	6.40		6.55
	Alachlor	87.4	94.2	78.9	76.9	7.56		2.64
	Ametryn	99.8	105	94.2	98.1	4.82		4.03
	Atrazine	98.1	102			4.33		2.23
	Atrazine Desethyl	69.4	73.3	54.0	39.6	5.56		26.2
	Azinphos Methyl	98.0	96.6	123	133	1.42		7.84
	Bromacil	96.8	98.4	46.2	11.3	1.56		12.8
	Butylate	48.6	55.5	49.8	50.9	13.4		2.26
	Chlorpyrifos Ethyl	85.4	87.3	54.2	73.5	2.18		27.2
	Chlorpyrifos Methyl	78.1	78.5	69.4	74.9	0.523		7.58
	Cyanazine	99.9	107	71.0	59.0	6.82		18.5
	Demeton	85.2	82.1	88.6	104	3.64		16.2
	Diazinon	87.4	94.6	89.7	95.1	7.92		5.78
	Disulfoton	89.6	81.8	85.3	87.3	9.16		2.33
	EPTC	44.9	51.3	47.3	47.8	13.4		1.11
	Ethion	77.9	74.6	66.1	66.4	4.38		0.490
	Ethoprop	90.1	87.4	107	113	3.05		5.78
	Fenamiphos	91.3	91.9	64.3	79.4	0.658		21.0
	Fipronil	92.6	100	62.6	56.1	7.96		8.53
	Fipronil Sulfide	87.0	91.2	49.5	41.9	4.73		9.54
	Fipronil Sulfone	77.7	78.8	39.7	17.0	1.46		27.3
	Fonofos	88.9	89.5	94.8	97.5	0.672		2.82
	Hexazinone	92.5	96.3	102	112	4.07		9.68
	Malathion	98.3	95.4	75.4	80.1	3.00		4.35
	Metalaxyl	86.1	91.0	73.1	76.9	5.56		4.98
	Metolachlor	84.6	89.6	62.6	70.8	5.65		9.28
	Metribuzin	109	122	85.4	93.3	10.9		8.85
	Mevinphos	94.5	89.2	130	125	5.87		3.90
	Molinate	56.2	61.8	65.8	74.2	9.35		11.9
	Norflurazon	87.3	94.3	53.7	39.6	7.62		30.3
	Parathion Ethyl	88.8	93.3	90.0	98.6	4.93		9.14
	Parathion Methyl	89.6	92.1	111	105	2.80		5.38
	Pendimethalin	80.7	79.9	63.8	71.7	0.991		11.6
	Phorate	89.3	78.3	105	118	13.0		12.0
	Prometon	93.7	101	99.7	107	7.68		7.21
	Prometryn	98.4	107	82.5	95.3	8.30		14.4
	Simazine	94.6	103	88.0	95.5	8.52		8.21
	Terbufos	85.0	86.6	95.3	102	1.81		6.36
	Terbuthylazine	90.4	96.3	83.5	85.2	6.28		1.99
EPA 8321B	Glyphosate	82.8		68.8	70.4			2.30
SM 2120 B	Color (true)						5.62	
SM 2320 B-97	Total Alkalinity	103					0.177	
SM 2540 C-97	TDS						1.78	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500 F-C-97	Fluoride	99.2	98.6	98.0		0.525
SM 5310 B-00	Organic Carbon	99.3	99.8	99.0		0.652
	Organic Carbon	101	96.8	99.6		2.05
	Organic Carbon	105	113			0.673
	Organic Carbon	105	113			0.673
USGS O-2060-01	2,4,5-T	75.6	78.4	73.6		6.32
	2,4-D	86.8	97.6	106		6.15
	2,4-DB	105	48.4	50.4		4.05
	Acetaminophen	116	63.2	50.8		19.7
	Acifluorfen	49.2	124	124		0.0
	Bentazon	97.2	119	123		3.31
	Carbamazepine	116	93.2	98.4		5.43
	Dichlorprop	86.4	99.2	106		6.63
	Dinoseb	74.8	90.8	102		12.0
	Diuron	76.4	53.9	56.3		3.33
	Fenuron	106	79.6	82.8		3.94
	Fluridone	84.4	65.6	65.6		0.0
	Imidacloprid	94.0	173	180		3.47
	Linuron	91.6	65.2	68.8		5.37
	MCPA	83.2	88.8	90.4		1.79
	MCPP	82.0	106	106		0.378
	Primidone	96.0	86.8	91.2		4.94
	Silvex	78.0	94.4	96.8		2.51

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
DEP SOP: GC-011-5 (based on EPA 608 and 617) / E31780	Organochlorine pesticides (low levels) in water matrices by GC/ECD.	1833155, 1833156, 1833157
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1833100, 1833101, 1833102, 1833103, 1833104
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1833100, 1833101, 1833102, 1833103, 1833104
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1833100, 1833101, 1833102, 1833103, 1833104
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1833105, 1833106, 1833107, 1833108, 1833109
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1833105, 1833106, 1833107, 1833108, 1833109
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1833105, 1833106, 1833107, 1833108, 1833109
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1833105, 1833106, 1833107, 1833108, 1833109
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1833110, 1833111, 1833112, 1833113, 1833114
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1833158, 1833159, 1833160
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1833152, 1833153, 1833154
SM 2120 B / E31780	True Color measured at 450 nm	1833100, 1833101, 1833102, 1833103, 1833104
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1833100, 1833101, 1833102, 1833103, 1833104
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1833100, 1833101, 1833102, 1833103, 1833104
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1833100, 1833101, 1833102, 1833103, 1833104

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1833100, 1833101, 1833102, 1833103, 1833104
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1833105, 1833106, 1833107, 1833108, 1833109
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1833152, 1833153, 1833154
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1833152, 1833153, 1833154

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: GC-011-5 (based on EPA 608 and 617)	09/21/2016	09/23/2016	Fe-Val Siddell	09/27/2016	Vandana T. Nagar	1833155, 1833156
	09/21/2016	09/23/2016	Fe-Val Siddell	09/28/2016	Vandana T. Nagar	1833157
EPA 180.1 Rev. 2.0	09/21/2016			09/21/2016 15:10	Sima Feizi	1833100, 1833101, 1833102, 1833103, 1833104
EPA 300.0 Rev. 2.1	09/21/2016			09/24/2016	Ping Hua	1833100, 1833101, 1833104
	09/21/2016			09/30/2016	Ping Hua	1833102, 1833103
EPA 350.1 Rev. 2.0	09/21/2016			09/22/2016	Sofia Elnemr	1833105, 1833106, 1833107, 1833108, 1833109
EPA 351.2 Rev. 2.0	09/21/2016	09/28/2016	Adrian Shelby	10/04/2016	Joseph Suarez	1833105, 1833106
	09/21/2016	09/29/2016	Adrian Shelby	10/04/2016	Joseph Suarez	1833109
	09/21/2016	10/07/2016	Adrian Shelby	10/11/2016	Christopher Armour	1833107, 1833108
EPA 353.2 Rev. 2.0	09/21/2016			09/27/2016	Peter D. Kaus	1833105, 1833106, 1833107, 1833108
	09/21/2016			10/03/2016	Beverly Y. Sanders	1833109
EPA 365.1 Rev. 2.0	09/21/2016	09/30/2016	Vijayalakshmi Reddy	10/03/2016	Lipi Saha	1833105, 1833106, 1833107, 1833108, 1833109
EPA 365.1 Rev. 2.0 dissolved	09/21/2016			09/21/2016 14:48	Julia Storbeck	1833110
	09/21/2016			09/21/2016 14:52	Julia Storbeck	1833111
	09/21/2016			09/21/2016 15:03	Julia Storbeck	1833112
	09/21/2016			09/21/2016 15:04	Julia Storbeck	1833113
	09/21/2016			09/21/2016 15:06	Julia Storbeck	1833114
EPA 8270D	09/21/2016	09/22/2016	Fe-Val Siddell	10/04/2016	Irina Carbone	1833158, 1833159, 1833160
EPA 8321B	09/21/2016	09/23/2016	Juyoung Kim	09/26/2016	Juyoung Kim	1833152, 1833153, 1833154
SM 2120 B	09/21/2016			09/21/2016 18:58	Julie Michelle Frank	1833100
	09/21/2016			09/21/2016 18:59	Julie Michelle Frank	1833101
	09/21/2016			09/21/2016 19:00	Julie Michelle Frank	1833102
	09/21/2016			09/21/2016 19:01	Julie Michelle Frank	1833103
	09/21/2016			09/21/2016 19:02	Julie Michelle Frank	1833104
SM 2320 B-97	09/21/2016			09/24/2016	Dale L. Simmons	1833100, 1833101, 1833102, 1833103, 1833104
SM 2540 C-97	09/21/2016			09/23/2016	Yijie Li	1833100, 1833101, 1833102, 1833103, 1833104
SM 2540 D-97	09/21/2016			09/23/2016	Yijie Li	1833100, 1833101, 1833102, 1833103, 1833104
SM 4500 F-C-97	09/21/2016			09/24/2016	Dale L. Simmons	1833100, 1833101, 1833102, 1833103, 1833104
SM 5310 B-00	09/21/2016			09/28/2016	Julie Michelle Frank	1833109
	09/21/2016			09/29/2016	Julie Michelle Frank	1833107, 1833108
	09/21/2016			10/04/2016	Julie Michelle Frank	1833105, 1833106
USGS O-2060-01	09/21/2016	09/23/2016	Hoor Shaik	09/27/2016	Juyoung Kim	1833152, 1833153, 1833154
	09/21/2016	09/23/2016	Hoor Shaik	09/28/2016	Juyoung Kim	1833152, 1833153, 1833154