

Chemical Analysis Report

NE-DIST-2018-01-17-03

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

Event Description: **Suw 3_2018**
Request ID: **RQ-2018-01-15-22**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
NE ROC
8800 Baymeadows Way
Suite 100
Jacksonville, FL 32256-7577
Attn: Nicole Frederick

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: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 09-FEB-2018 16:36



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: Hague Br. Trib. @ US 441 80m W of 77th Terrace

Collection Date/Time: 01/16/2018 12:30

Field ID: 21030152

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959949	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P338371	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P338475	
		Sulfate	29		mg SO4/L	P338477	
	SM 2120 B	Color (true)	75		PCU	P338400	
	SM 2320 B-97	Total Alkalinity	132		mg CaCO3/L	P338674	
	SM 2540 C-97	TDS	283		mg/L	P338698	
	SM 2540 D-97	TSS	2	I	mg/L	P338898	
	SM 4500 F-C-97	Fluoride	0.27		mg F/L	P339050	
1959950	EPA 350.1 Rev. 2.0	Ammonia-N	0.073		mg N/L	P338725	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P33892	
	EPA 353.2 Rev. 2.0	NO2NO3-N	5.2		mg N/L	P338571	
	EPA 365.1 Rev. 2.0	Total-P	0.56		mg P/L	P338495	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P338920	
1959951	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.51		mg P/L	P338375	
1959972	EPA 8321B	Glyphosate**	0.22	I	ug/L	P338530	
		AMPA**	0.17	I	ug/L	P338530	
		Pyraclostrobin**	0.0020	U	ug/L	P338545	RPD
		Sucralose**	0.21		ug/L	P338431	
	USGS O-2060-01	2,4-D	0.0021	I	ug/L	P338349	
		Diuron	0.0020	U	ug/L	P338349	
		Fenuron	0.0080	U	ug/L	P338349	
		Imidacloprid	0.0020	U	ug/L	P338349	MS
		Bentazon	8.0E-04	U	ug/L	P338349	
		Linuron	0.0040	U	ug/L	P338349	
		Acetaminophen**	0.0080	U	ug/L	P338349	
		MCP	0.0020	U	ug/L	P338349	
		Carbamazepine**	4.0E-04	U	ug/L	P338349	
		Triclopyr**	0.0040	U	ug/L	P338349	
		Primidone**	0.0040	U	ug/L	P338349	
		Fluridone**	0.0017		ug/L	P338349	RPD
	EPA 8321B	Aldicarb	0.020	U	ug/L	P338349	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P338349	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P338349	
		Carbaryl	0.0020	U	ug/L	P338349	
		Carbofuran	0.0020	U	ug/L	P338349	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P338349	
		Methiocarb	0.0020	U	ug/L	P338349	
		Methomyl	0.0020	U	ug/L	P338349	
		Oxamyl	0.0020	U	ug/L	P338349	
		Propoxur	0.0020	U	ug/L	P338349	
	EPA 8270D	Aldrin	4.8	U	ng/L	P338844	
		Alpha-BHC	2.4	U	ng/L	P338844	

Field ID: 21030152

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959974	EPA 8270D	Beta-BHC	4.8	U	ng/L	P338844	CCV, LCS, RPD
		Delta-BHC	4.8	U	ng/L	P338844	
		Gamma-BHC	4.8	U	ng/L	P338844	
		Carbophenothion	4.8	UJ	ng/L	P338844	
		Chlorothalonil	2.4	U	ng/L	P338844	
		Cypermethrin	24	U	ng/L	P338844	
		DDD-p,p'	3.6	U	ng/L	P338844	
		DDE-p,p'	3.6	U	ng/L	P338844	
		DDT-p,p'	3.6	U	ng/L	P338844	
		Dieldrin	4.8	U	ng/L	P338844	
		Endosulfan I	4.8	U	ng/L	P338844	
		Endosulfan II	4.8	U	ng/L	P338844	
		Endosulfan Sulfate	2.4	U	ng/L	P338844	
		Endrin	2.4	U	ng/L	P338844	
		Endrin Aldehyde	2.4	U	ng/L	P338844	
		Heptachlor	1.8	U	ng/L	P338844	
		Heptachlor Epoxide	2.4	U	ng/L	P338844	
		Methoxychlor	4.8	U	ng/L	P338844	
		Mirex	2.4	U	ng/L	P338844	
		Permethrin	12	U	ng/L	P338844	
		Trifluralin	1.2	U	ng/L	P338844	
		Alpha-Chlordane	1.2	U	ng/L	P338844	
		Gamma-Chlordane	1.2	U	ng/L	P338844	
		Endrin Ketone	2.4	U	ng/L	P338844	
		Dicofol	36	U	ng/L	P338844	
	EPA 8276	Chlordane**	3.0	U	ng/L	P338844	
		Toxaphene**	15	U	ng/L	P338844	
1959975	EPA 8270D	Alachlor	0.25	U	ng/L	P338517	RPD
		Ametryn	0.32	U	ng/L	P338517	
		Atrazine	1.4		ng/L	P338517	
		Atrazine Desethyl	1.5	U	ng/L	P338517	
		Azinphos Methyl	2.2	U	ng/L	P338517	
		Bromacil	0.50	U	ng/L	P338517	
		Butylate	0.40	U	ng/L	P338517	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P338517	
		Chlorpyrifos Methyl	0.10	U	ng/L	P338517	
		Demeton	2.0	UJ	ng/L	P338517	
		Diazinon	0.12	U	ng/L	P338517	
		Disulfoton	0.50	U	ng/L	P338517	
		EPTC	1.2	U	ng/L	P338517	
		Ethion	0.15	U	ng/L	P338517	
		Ethoprop	0.10	UJ	ng/L	P338517	
		Fenamiphos	0.25	U	ng/L	P338517	
		Fipronil	0.25	U	ng/L	P338517	
							MS

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
1959975	EPA 8270D	Fipronil Sulfide	0.15	UJ	ng/L	P338517	RPD		
		Fipronil Sulfone	0.15	U	ng/L	P338517			
		Hexazinone	3.0		ng/L	P338517			
		Malathion	0.35	U	ng/L	P338517			
		Metribuzin	0.20	UJ	ng/L	P338517	MS		
		Mevinphos	0.50	U	ng/L	P338517			
		Molinate	0.30	U	ng/L	P338517			
		Norflurazon	0.50	U	ng/L	P338517			
		Pendimethalin	1.0	U	ng/L	P338517			
		Phorate	0.25	U	ng/L	P338517			
		Prometon	2.2	I	ng/L	P338517			
		Prometryn	0.20	U	ng/L	P338517			
		Simazine	0.50	U	ng/L	P338517			
		Terbufos	0.10	U	ng/L	P338517			
		Terbuthylazine	0.42	U	ng/L	P338517			
		Fonofos	0.20	U	ng/L	P338517			
		Metalaxyl	0.25	U	ng/L	P338517			
		Metolachlor	0.25	U	ng/L	P338517			
		Acetochlor	0.25	U	ng/L	P338517			
		Cyanazine	0.50	U	ng/L	P338517			
		Parathion Ethyl	0.25	U	ng/L	P338517			
		Parathion Methyl	0.25	U	ng/L	P338517			
		1959991	EPA 200.7 Rev. 4.4	Calcium	39.1		mg/L	P338558	
				Iron	250		ug/L	P338558	
Magnesium	16.8				mg/L	P338558			
Potassium	15.4				mg/L	P338558			
Sodium	26.0				mg/L	P338558			
Zinc	5.0			U	ug/L	P338558			
EPA 200.8 Rev. 5.4	Arsenic		0.72		ug/L	P338558			
	Cadmium		0.712		ug/L	P338558			
	Chromium		0.87	I	ug/L	P338558			
	Copper		0.52	I	ug/L	P338558			
	Lead		0.16	I	ug/L	P338558			
	Nickel		3.41		ug/L	P338558			
	Silver		0.010	U	ug/L	P338558			

EPA 200.8 Rev. 5.4: The cadmium result was confirmed in the undigested sample on 02/01/2018.

Collection Date/Time: 01/16/2018 09:35

Field ID: 21030130

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959937	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P338371	

Field ID: 21030130

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959937	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P338475	
		Sulfate	0.38	I	mg SO4/L	P338477	
	SM 2120 B	Color (true)	600		PCU	P338399	
	SM 2320 B-97	Total Alkalinity	7.1		mg CaCO3/L	P338674	
	SM 2540 C-97	TDS	186		mg/L	P338698	
	SM 2540 D-97	TSS	2	I	mg/L	P338898	
	SM 4500 F-C-97	Fluoride	0.054	I	mg F/L	P339050	
1959941	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P338725	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P338600	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P338571	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P338426	
	SM 5310 B-00	Organic Carbon	60		mg C/L	P338920	
1959945	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P338375	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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.

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Rocky Creek @ 156

Collection Date/Time: 01/16/2018 10:45

Field ID: G1NE0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959938	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P338371	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P338475	
		Sulfate	1.8		mg SO4/L	P338477	
	SM 2120 B	Color (true)	350		PCU	P338400	
	SM 2320 B-97	Total Alkalinity	15		mg CaCO3/L	P338674	
	SM 2540 C-97	TDS	149		mg/L	P338698	
	SM 2540 D-97	TSS	2	I	mg/L	P338898	
1959942	SM 4500 F-C-97	Fluoride	0.083	I	mg F/L	P339050	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P338725	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P33892	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P338571	
	EPA 365.1 Rev. 2.0	Total-P	0.089		mg P/L	P338426	
1959946	SM 5310 B-00	Organic Carbon	34		mg C/L	P338920	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.060		mg P/L	P338375	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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.

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Rhuda Branch @ 192 Ave (NW 8th Terrace)

Collection Date/Time: 01/16/2018 11:30

Field ID: 21030146

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959939	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P338371	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P338475	

Field ID: 21030146

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959939	EPA 300.0 Rev. 2.1	Sulfate	5.6		mg SO4/L	P338477	
	SM 2120 B	Color (true)	240		PCU	P338400	
	SM 2320 B-97	Total Alkalinity	5.9		mg CaCO3/L	P338923	
	SM 2540 C-97	TDS	118		mg/L	P338698	
	SM 2540 D-97	TSS	3	I	mg/L	P338898	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P339050	
1959943	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P338725	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P33892	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P338571	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P338426	
	SM 5310 B-00	Organic Carbon	28		mg C/L	P338920	
1959947	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.20		mg P/L	P338375	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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.

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Kanapaha 300m N of 56th

Collection Date/Time: 01/16/2018 13:30

Field ID: 20030925

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1959940	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P338371	
	EPA 300.0 Rev. 2.1	Chloride	9.9		mg Cl/L	P338475	
		Sulfate	1.1		mg SO4/L	P338477	
	SM 2120 B	Color (true)	71	A	PCU	P338400	
	SM 2320 B-97	Total Alkalinity	85		mg CaCO3/L	P338674	
	SM 2540 C-97	TDS	134	A	mg/L	P338698	
	SM 2540 D-97	TSS	3	IA	mg/L	P338898	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P339050	
1959944	EPA 350.1 Rev. 2.0	Ammonia-N	0.063		mg N/L	P338725	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P33892	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P338571	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P338495	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P338920	
1959948	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.23		mg P/L	P338375	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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.

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P338371

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338558

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338558

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: P338475

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338477

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338725

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338600

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P33892

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P338571

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P338426

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P338495

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P338375

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

Reference Method: EPA 8270D
 Batch ID: P338517

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P338517

Component	Result	Code	Units
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P338844

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 8276
Batch ID: P338844

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P338349

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P338431

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P338530

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P338545

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P338399

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P338400

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P338674

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

Reference Method: SM 2320 B-97
Batch ID: P338923

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
 Batch ID: P338923

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

Reference Method: SM 2540 C-97
 Batch ID: P338698

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
 Batch ID: P338898

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
 Batch ID: P339050

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P338920

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

Reference Method: USGS O-2060-01
 Batch ID: P338349

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P338558

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	107		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338558

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	108		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	106		P	85 - 115
Sodium	111		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338558

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	98.7		P	85 - 115
Cadmium	94.8		P	85 - 115
Chromium	100		P	85 - 115
Copper	93.9		P	85 - 115
Lead	94.0		P	85 - 115
Nickel	97.5		P	85 - 115
Silver	104		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338475

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338477

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338725

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338600

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P33892

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338571

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

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338571

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338426

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: P338495

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338375

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

Reference Method: EPA 8270D
Batch ID: P338517

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.6	92.4	P/P	74 - 119
Alachlor	97.9	93.2	P/P	75 - 118
Ametryn	68.3	91.1	P/P	59 - 137
Atrazine	102	103	P/P	73 - 120
Atrazine Desethyl	105	105	P/P	19 - 129
Azinphos Methyl	108	108	P/P	65 - 181
Bromacil	58.3	58.5	P/P	43 - 123
Butylate	62.8	58.8	P/P	28 - 85.0
Chlorpyrifos Ethyl	94.8	96.9	P/P	55 - 112
Chlorpyrifos Methyl	97.9	103	P/P	35 - 124
Cyanazine	255	234	P/P	26 - 262
Demeton	64.4	88.1	P/P	43 - 122
Diazinon	92.4	84.2	P/P	72 - 120
Disulfoton	79.5	100	P/P	45 - 137
EPTC	60.3	56.0	P/P	28 - 95.0
Ethion	96.2	103	P/P	63 - 127
Ethoprop	95.0	106	P/P	63 - 109
Fenamiphos	90.8	101	P/P	66 - 136
Fipronil	94.9	93.9	P/P	63 - 126
Fipronil Sulfide	88.5	95.8	P/P	59 - 123
Fipronil Sulfone	86.2	91.3	P/P	56 - 122
Fonofos	93.7	98.9	P/P	64 - 114
Hexazinone	96.5	93.6	P/P	49 - 144
Malathion	93.8	101	P/P	68 - 131
Metaxyl	94.4	94.1	P/P	57 - 126
Metolachlor	98.6	93.8	P/P	75 - 118
Metribuzin	163	165	P/P	46 - 169
Mevinphos	69.9	68.0	P/P	34 - 126

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P338517

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	64.9	60.6	P/P	37 - 101
Norflurazon	88.5	86.2	P/P	63 - 127
Parathion Ethyl	95.8	95.6	P/P	78 - 109
Parathion Methyl	99.6	100	P/P	74 - 123
Pendimethalin	103	104	P/P	51 - 130
Phorate	77.7	86.8	P/P	53 - 116
Prometon	87.1	84.6	P/P	66 - 124
Prometryn	91.7	93.5	P/P	66 - 124
Simazine	99.8	99.0	P/P	62 - 134
Terbufos	90.3	98.2	P/P	59 - 115
Terbuthylazine	98.9	96.6	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P338844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	47.8	51.3	P/P	24 - 89.0
Alpha-BHC	84.0	89.9	P/P	58 - 117
Alpha-Chlordane	72.7	71.5	P/P	56 - 115
Beta-BHC	95.8	95.2	P/P	55 - 137
Carbophenothion	32.3	49.9	F/P	37 - 145
Chlorothalonil	67.7	76.0	P/P	26 - 163
Cypermethrin	109	100	P/P	42 - 156
DDD-p,p'	78.8	83.5	P/P	59 - 129
DDE-p,p'	68.9	73.1	P/P	52 - 117
DDT-p,p'	78.4	75.9	P/P	48 - 128
Delta-BHC	91.6	93.3	P/P	59 - 158
Dicofol	66.8	70.6	P/P	19 - 124
Dieldrin	77.3	80.0	P/P	57 - 126
Endosulfan I	78.0	92.9	P/P	59 - 133
Endosulfan II	90.3	91.3	P/P	58 - 148
Endosulfan Sulfate	96.5	107	P/P	56 - 135
Endrin	83.6	78.9	P/P	50 - 140
Endrin Aldehyde	85.1	86.4	P/P	47 - 141
Endrin Ketone	93.4	96.6	P/P	63 - 123
Gamma-BHC	74.7	79.3	P/P	59 - 132
Gamma-Chlordane	71.6	70.3	P/P	55 - 112
Heptachlor	67.7	68.2	P/P	45 - 102
Heptachlor Epoxide	76.3	76.6	P/P	61 - 116
Methoxychlor	95.0	99.4	P/P	60 - 133
Mirex	67.2	72.4	P/P	40 - 98.0
Permethrin	90.6	89.8	P/P	45 - 131
Trifluralin	76.1	78.7	P/P	38 - 179

Reference Method: EPA 8276
Batch ID: P338844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	68.6	70.9	P/P	47 - 125
Toxaphene	77.7	79.8	P/P	46 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P338349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	102		P	40 - 150
Aldicarb	122		P	30 - 150
Aldicarb Sulfone	106		P	40 - 150
Aldicarb Sulfoxide	101		P	40 - 150
Carbaryl	88.5		P	40 - 150
Carbofuran	92.5		P	40 - 150
Methiocarb	93.3		P	40 - 150
Methomyl	99.5		P	40 - 150
Oxamyl	96.7		P	40 - 150
Propoxur	86.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P338431

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	102		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P338530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	114		P	40 - 150
Glyphosate	114		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P338545

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	79.3		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P338674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.8		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P338923

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.5		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P339050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.4		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P338920

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

Reference Method: SM 5310 B-00
Batch ID: P338920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.8		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P338349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	75.3		P	40 - 150
Acetaminophen	98.5		P	30 - 150
Bentazon	78.6		P	30 - 150
Carbamazepine	114		P	40 - 150
Diuron	102		P	40 - 150
Fenuron	114		P	40 - 150
Fluridone	120		P	40 - 150
Imidacloprid	113		P	40 - 160
Linuron	110		P	40 - 150
MCP	79.5		P	40 - 150
Primidone	109		P	40 - 150
Triclopyr	79.5		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959680	Calcium	102		P	80 - 120
1959680	Iron	107		P	80 - 120
1959680	Magnesium	107		P	80 - 120
1959680	Potassium	109		P	80 - 120
1959680	Sodium	104		P	80 - 120
1959680	Zinc	103		P	80 - 120
1960659	Calcium	105		P	80 - 120
1960659	Iron	109	110	P/P	80 - 120
1960659	Magnesium	107		P	80 - 120
1960659	Potassium	105	105	P/P	80 - 120
1960659	Sodium	109	109	P/P	80 - 120
1960659	Zinc	102	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959680	Arsenic	99.8		P	80 - 120
1959680	Cadmium	95.7		P	80 - 120
1959680	Chromium	100		P	80 - 120
1959680	Copper	91.9		P	80 - 120
1959680	Lead	95.3		P	80 - 120
1959680	Nickel	94.6		P	80 - 120
1959680	Silver	102		P	80 - 120
1960659	Arsenic	97.1	98.1	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1960659	Cadmium	97.8	98.6	P/P	80 - 120
1960659	Chromium	91.4	98.0	P/P	80 - 120
1960659	Copper	90.3	90.1	P/P	80 - 120
1960659	Lead	94.4	93.6	P/P	80 - 120
1960659	Nickel	92.8	93.4	P/P	80 - 120
1960659	Silver	102	103	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338475

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959939	Chloride	90.6		P	90 - 110
1960003	Chloride	96.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959939	Sulfate	91.0		P	90 - 110
1960003	Sulfate	93.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338725

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959865	Ammonia-N	95.1	93.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1960638	Kjeldahl Nitrogen	106	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P33892

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959865	Kjeldahl Nitrogen	104	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959931	NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959931	Total-P	99.0	98.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P338495

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959944	Total-P	97.0	91.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P338375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959945	O-Phosphate-P	100	100	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P338517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959975	Acetochlor	90.0	90.4	P/P	67 - 125
1959975	Alachlor	86.8	89.1	P/P	69 - 123
1959975	Ametryn	110	146	P/P	52 - 151
1959975	Atrazine	100	98.1	P/P	71 - 125
1959975	Atrazine Desethyl	118	115	P/P	10 - 129
1959975	Azinphos Methyl	102	98.3	P/P	48 - 200
1959975	Bromacil	116	105	P/P	46 - 130
1959975	Butylate	43.0	39.7	P/P	10 - 85.0
1959975	Chlorpyrifos Ethyl	102	92.9	P/P	54 - 115
1959975	Chlorpyrifos Methyl	115	101	P/P	44 - 117
1959975	Cyanazine	226	191	P/P	10 - 262
1959975	Demeton	87.2	89.9	P/P	24 - 145
1959975	Diazinon	86.3	79.8	P/P	66 - 129
1959975	Disulfoton	113	97.7	P/P	45 - 139
1959975	EPTC	35.4	38.6	P/P	10 - 86.0
1959975	Ethion	100	92.0	P/P	59 - 133
1959975	Ethoprop	125	108	F/P	54 - 116
1959975	Fenamiphos	137	108	P/P	55 - 140
1959975	Fipronil	91.6	89.6	P/P	37 - 142
1959975	Fipronil Sulfide	106	42.5	P/P	37 - 130
1959975	Fipronil Sulfone	96.7	86.8	P/P	18 - 143
1959975	Fonofos	116	100	P/P	55 - 118
1959975	Hexazinone	93.2	88.1	P/P	62 - 140
1959975	Malathion	103	103	P/P	64 - 132
1959975	Metalaxyl	97.9	85.3	P/P	55 - 129
1959975	Metolachlor	95.0	90.9	P/P	56 - 137
1959975	Metribuzin	202	223	P/F	16 - 218
1959975	Mevinphos	119	88.8	P/P	34 - 129
1959975	Molinate	45.6	49.3	P/P	16 - 99.0
1959975	Norflurazon	78.3	77.5	P/P	43 - 135
1959975	Parathion Ethyl	97.5	91.2	P/P	71 - 112
1959975	Parathion Methyl	107	100	P/P	65 - 127
1959975	Pendimethalin	104	99.3	P/P	35 - 159
1959975	Phorate	105	94.7	P/P	41 - 129
1959975	Prometon	80.1	73.5	P/P	56 - 140
1959975	Prometryn	90.5	86.0	P/P	65 - 130
1959975	Simazine	105	99.7	P/P	54 - 148
1959975	Terbufos	114	99.6	P/P	53 - 126
1959975	Terbutylazine	95.3	93.0	P/P	73 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P338844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959974	Aldrin	45.9	46.2	P/P	26 - 96.0
1959974	Alpha-BHC	83.0	79.3	P/P	51 - 123
1959974	Alpha-Chlordane	64.1	56.4	P/P	45 - 120
1959974	Beta-BHC	94.7	73.9	P/P	43 - 146
1959974	Carbophenothion	92.0	80.1	P/P	26 - 179
1959974	Chlorothalonil	54.8	41.4	P/P	10 - 215
1959974	Cypermethrin	91.4	95.4	P/P	35 - 169
1959974	DDD-p,p'	72.3	66.4	P/P	49 - 131
1959974	DDE-p,p'	65.2	58.4	P/P	39 - 127
1959974	DDT-p,p'	70.5	72.4	P/P	49 - 120
1959974	Delta-BHC	107	94.3	P/P	49 - 187
1959974	Dicofol	58.1	50.0	P/P	10 - 129
1959974	Dieldrin	69.5	60.6	P/P	46 - 132
1959974	Endosulfan I	67.5	58.9	P/P	57 - 130
1959974	Endosulfan II	81.4	61.8	P/P	52 - 148
1959974	Endosulfan Sulfate	78.2	96.8	P/P	55 - 129
1959974	Endrin	71.0	62.2	P/P	45 - 133
1959974	Endrin Aldehyde	73.4	60.9	P/P	26 - 140
1959974	Endrin Ketone	88.3	85.9	P/P	60 - 125
1959974	Gamma-BHC	81.8	83.1	P/P	50 - 145
1959974	Gamma-Chlordane	63.5	57.3	P/P	44 - 118
1959974	Heptachlor	49.4	53.0	P/P	35 - 106
1959974	Heptachlor Epoxide	67.8	59.9	P/P	52 - 123
1959974	Methoxychlor	79.8	74.7	P/P	54 - 132
1959974	Mirex	58.6	65.1	P/P	36 - 107
1959974	Permethrin	78.5	78.1	P/P	47 - 135
1959974	Trifluralin	64.2	69.1	P/P	32 - 228

Reference Method: EPA 8276
Batch ID: P338844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959817	Chlordane	73.1	68.7	P/P	41 - 134
1959817	Toxaphene	80.2	78.7	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P338349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959579	3-Hydroxycarbofuran	114	133	P/P	40 - 150
1959579	Aldicarb	127	164	P/F	30 - 150
1959579	Aldicarb Sulfone	143	142	P/P	40 - 150
1959579	Aldicarb Sulfoxide	107	87.3	P/P	40 - 150
1959579	Carbaryl	67.7	73.7	P/P	40 - 150
1959579	Carbofuran	78.6	82.5	P/P	40 - 150
1959579	Methiocarb	75.8	78.2	P/P	40 - 150
1959579	Methomyl	99.4	89.6	P/P	40 - 150
1959579	Oxamyl	100	97.4	P/P	40 - 150
1959579	Propoxur	68.8	75.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P338431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959537	Sucralose	87.4	97.6	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P338530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959972	AMPA	87.8	87.3	P/P	40 - 150
1959972	Glyphosate	103	108	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P338545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959537	Pyraclostrobin	111	70.4	P/P	40 - 150

Reference Method: SM 5310 B-00
 Batch ID: P338920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959942	Organic Carbon	105		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P338349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1959579	2,4-D	113	103	P/P	40 - 150
1959579	Acetaminophen	87.9	109	P/P	30 - 150
1959579	Bentazon	148	105	P/P	30 - 150
1959579	Carbamazepine	100	105	P/P	40 - 150
1959579	Diuron	74.3	85.4	P/P	40 - 150
1959579	Fenuron	107	93.4	P/P	40 - 150
1959579	Fluridone	83.5	47.8	P/P	40 - 150
1959579	Imidacloprid	161	223	F/F	40 - 160
1959579	Linuron	87.7	87.0	P/P	40 - 150
1959579	MCP	97.1	75.7	P/P	40 - 150
1959579	Primidone	121	96.4	P/P	40 - 150
1959579	Triclopyr	90.9	75.1	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P338371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959938	Turbidity	2.90	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1960659	Calcium	0.0851	Spike	P	0 - 20
1960659	Iron	0.984	Spike	P	0 - 20
1960659	Magnesium	1.13	Spike	P	0 - 20
1960659	Potassium	0.238	Spike	P	0 - 20
1960659	Sodium	0.272	Spike	P	0 - 20
1960659	Zinc	1.39	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1960659	Arsenic	1.02	Spike	P	0 - 20
1960659	Cadmium	0.805	Spike	P	0 - 20
1960659	Chromium	6.69	Spike	P	0 - 20
1960659	Copper	0.251	Spike	P	0 - 20
1960659	Lead	0.797	Spike	P	0 - 20
1960659	Nickel	0.644	Spike	P	0 - 20
1960659	Silver	1.05	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338475

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1960003	Chloride	0.134	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338725

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959865	Ammonia-N	1.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1960638	Kjeldahl Nitrogen	4.22	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P33892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959865	Kjeldahl Nitrogen	2.67	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959931	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959931	Total-P	0.188	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338495

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959944	Total-P	3.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959945	O-Phosphate-P	0.300	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P338517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959975	Acetochlor	0.467	Spike	P	0 - 30
1959975	Alachlor	2.62	Spike	P	0 - 30
1959975	Ametryn	27.8	Spike	P	0 - 30
1959975	Atrazine	1.42	Spike	P	0 - 30
1959975	Atrazine Desethyl	2.70	Spike	P	0 - 30
1959975	Azinphos Methyl	3.60	Spike	P	0 - 30
1959975	Bromacil	10.1	Spike	P	0 - 30
1959975	Butylate	7.79	Spike	P	0 - 30
1959975	Chlorpyrifos Ethyl	9.22	Spike	P	0 - 30
1959975	Chlorpyrifos Methyl	12.5	Spike	P	0 - 30
1959975	Cyanazine	16.9	Spike	P	0 - 30
1959975	Demeton	3.14	Spike	P	0 - 30
1959975	Diazinon	7.79	Spike	P	0 - 30
1959975	Disulfoton	14.6	Spike	P	0 - 30
1959975	EPTC	8.59	Spike	P	0 - 30
1959975	Ethion	8.34	Spike	P	0 - 30
1959975	Ethoprop	15.1	Spike	P	0 - 30
1959975	Fenamiphos	23.7	Spike	P	0 - 30
1959975	Fipronil	2.19	Spike	P	0 - 30
1959975	Fipronil Sulfide	85.7	Spike	F	0 - 30
1959975	Fipronil Sulfone	10.7	Spike	P	0 - 30
1959975	Fonofos	14.6	Spike	P	0 - 30
1959975	Hexazinone	4.45	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P338517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959975	Malathion	0.358	Spike	P	0 - 30
1959975	Metalaxyl	13.7	Spike	P	0 - 30
1959975	Metolachlor	4.45	Spike	P	0 - 30
1959975	Metribuzin	10.0	Spike	P	0 - 30
1959975	Mevinphos	29.0	Spike	P	0 - 30
1959975	Molinate	7.89	Spike	P	0 - 30
1959975	Norflurazon	1.08	Spike	P	0 - 30
1959975	Parathion Ethyl	6.65	Spike	P	0 - 30
1959975	Parathion Methyl	6.22	Spike	P	0 - 30
1959975	Pendimethalin	4.24	Spike	P	0 - 30
1959975	Phorate	10.6	Spike	P	0 - 30
1959975	Prometon	6.38	Spike	P	0 - 30
1959975	Prometryn	5.10	Spike	P	0 - 30
1959975	Simazine	4.91	Spike	P	0 - 30
1959975	Terbufos	13.5	Spike	P	0 - 30
1959975	Terbutylazine	2.48	Spike	P	0 - 30
LFB	Acetochlor	4.40	LCS	P	0 - 30
LFB	Alachlor	4.86	LCS	P	0 - 30
LFB	Ametryn	28.6	LCS	P	0 - 30
LFB	Atrazine	1.20	LCS	P	0 - 30
LFB	Atrazine Desethyl	0.309	LCS	P	0 - 30
LFB	Azinphos Methyl	0.805	LCS	P	0 - 30
LFB	Bromacil	0.204	LCS	P	0 - 30
LFB	Butylate	6.47	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.26	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	5.33	LCS	P	0 - 30
LFB	Cyanazine	8.67	LCS	P	0 - 30
LFB	Demeton	31.1	LCS	F	0 - 30
LFB	Diazinon	9.22	LCS	P	0 - 30
LFB	Disulfoton	22.8	LCS	P	0 - 30
LFB	EPTC	7.43	LCS	P	0 - 30
LFB	Ethion	6.91	LCS	P	0 - 30
LFB	Ethoprop	10.6	LCS	P	0 - 30
LFB	Fenamiphos	11.1	LCS	P	0 - 30
LFB	Fipronil	1.05	LCS	P	0 - 30
LFB	Fipronil Sulfide	7.97	LCS	P	0 - 30
LFB	Fipronil Sulfone	5.78	LCS	P	0 - 30
LFB	Fonofos	5.34	LCS	P	0 - 30
LFB	Hexazinone	3.01	LCS	P	0 - 30
LFB	Malathion	7.23	LCS	P	0 - 30
LFB	Metalaxyl	0.259	LCS	P	0 - 30
LFB	Metolachlor	5.04	LCS	P	0 - 30
LFB	Metribuzin	1.57	LCS	P	0 - 30
LFB	Mevinphos	2.78	LCS	P	0 - 30
LFB	Molinate	6.85	LCS	P	0 - 30
LFB	Norflurazon	2.60	LCS	P	0 - 30
LFB	Parathion Ethyl	0.223	LCS	P	0 - 30
LFB	Parathion Methyl	0.623	LCS	P	0 - 30
LFB	Pendimethalin	0.737	LCS	P	0 - 30
LFB	Phorate	11.0	LCS	P	0 - 30
LFB	Prometon	2.92	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P338517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Prometryn	1.97	LCS	P	0 - 30
LFB	Simazine	0.801	LCS	P	0 - 30
LFB	Terbufos	8.31	LCS	P	0 - 30
LFB	Terbutylazine	2.38	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P338844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959974	Aldrin	0.607	Spike	P	0 - 30
1959974	Alpha-BHC	4.50	Spike	P	0 - 30
1959974	Alpha-Chlordane	12.9	Spike	P	0 - 30
1959974	Beta-BHC	24.6	Spike	P	0 - 30
1959974	Carbophenothion	13.9	Spike	P	0 - 30
1959974	Chlorothalonil	27.9	Spike	P	0 - 30
1959974	Cypermethrin	4.28	Spike	P	0 - 30
1959974	DDD-p,p'	8.49	Spike	P	0 - 30
1959974	DDE-p,p'	11.0	Spike	P	0 - 30
1959974	DDT-p,p'	2.62	Spike	P	0 - 30
1959974	Delta-BHC	12.9	Spike	P	0 - 30
1959974	Dicofol	15.1	Spike	P	0 - 30
1959974	Dieldrin	13.7	Spike	P	0 - 30
1959974	Endosulfan I	13.7	Spike	P	0 - 30
1959974	Endosulfan II	27.3	Spike	P	0 - 30
1959974	Endosulfan Sulfate	21.2	Spike	P	0 - 30
1959974	Endrin	13.3	Spike	P	0 - 30
1959974	Endrin Aldehyde	18.6	Spike	P	0 - 30
1959974	Endrin Ketone	2.69	Spike	P	0 - 30
1959974	Gamma-BHC	1.59	Spike	P	0 - 30
1959974	Gamma-Chlordane	10.4	Spike	P	0 - 30
1959974	Heptachlor	7.10	Spike	P	0 - 30
1959974	Heptachlor Epoxide	12.5	Spike	P	0 - 30
1959974	Methoxychlor	6.51	Spike	P	0 - 30
1959974	Mirex	10.4	Spike	P	0 - 30
1959974	Permethrin	0.464	Spike	P	0 - 30
1959974	Trifluralin	7.36	Spike	P	0 - 30
LFB	Aldrin	7.13	LCS	P	0 - 30
LFB	Alpha-BHC	6.76	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.71	LCS	P	0 - 30
LFB	Beta-BHC	0.567	LCS	P	0 - 30
LFB	Carbophenothion	42.8	LCS	F	0 - 30
LFB	Chlorothalonil	11.5	LCS	P	0 - 30
LFB	Cypermethrin	8.46	LCS	P	0 - 30
LFB	DDD-p,p'	5.84	LCS	P	0 - 30
LFB	DDE-p,p'	5.89	LCS	P	0 - 30
LFB	DDT-p,p'	3.36	LCS	P	0 - 30
LFB	Delta-BHC	1.80	LCS	P	0 - 30
LFB	Dicofol	5.45	LCS	P	0 - 30
LFB	Dieldrin	3.36	LCS	P	0 - 30
LFB	Endosulfan I	17.5	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P338844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endosulfan II	1.02	LCS	P	0 - 30
LFB	Endosulfan Sulfate	10.2	LCS	P	0 - 30
LFB	Endrin	5.81	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.54	LCS	P	0 - 30
LFB	Endrin Ketone	3.35	LCS	P	0 - 30
LFB	Gamma-BHC	5.85	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.85	LCS	P	0 - 30
LFB	Heptachlor	0.798	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.461	LCS	P	0 - 30
LFB	Methoxychlor	4.59	LCS	P	0 - 30
LFB	Mirex	7.46	LCS	P	0 - 30
LFB	Permethrin	0.885	LCS	P	0 - 30
LFB	Trifluralin	3.33	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P338844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959817	Chlordane	6.21	Spike	P	0 - 30
1959817	Toxaphene	1.89	Spike	P	0 - 30
LFB	Chlordane	3.24	LCS	P	0 - 30
LFB	Toxaphene	2.67	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P338349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959579	3-Hydroxycarbofuran	15.3	Spike	P	0 - 30
1959579	Aldicarb	25.3	Spike	P	0 - 30
1959579	Aldicarb Sulfone	0.575	Spike	P	0 - 30
1959579	Aldicarb Sulfoxide	20.4	Spike	P	0 - 30
1959579	Carbaryl	8.17	Spike	P	0 - 30
1959579	Carbofuran	4.81	Spike	P	0 - 30
1959579	Methiocarb	3.04	Spike	P	0 - 30
1959579	Methomyl	10.4	Spike	P	0 - 30
1959579	Oxamyl	2.88	Spike	P	0 - 30
1959579	Propoxur	8.94	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P338431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959537	Sucralose	11.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P338530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959972	AMPA	0.571	Spike	P	0 - 30
1959972	Glyphosate	4.09	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P338545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959537	Pyraclostrobin	44.9	Spike	F	0 - 30

Reference Method: SM 2120 B
Batch ID: P338399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959855	Color (true)	0.0648	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P338400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959940	Color (true)	0.401	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P338674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1960002	Total Alkalinity	1.01	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P338923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961439	Total Alkalinity	0.671	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P338698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959940	TDS	4.48	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P339050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1960002	Fluoride	1.96	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
 Batch ID: P338920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959942	Organic Carbon	1.42	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P338349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1959579	2,4-D	8.07	Spike	P	0 - 30
1959579	Acetaminophen	21.2	Spike	P	0 - 30
1959579	Bentazon	12.6	Spike	P	0 - 30
1959579	Carbamazepine	4.22	Spike	P	0 - 30
1959579	Diuron	12.2	Spike	P	0 - 30
1959579	Fenuron	13.3	Spike	P	0 - 30
1959579	Fluridone	36.3	Spike	F	0 - 30
1959579	Imidacloprid	28.3	Spike	P	0 - 30
1959579	Linuron	0.843	Spike	P	0 - 30
1959579	MCP	23.6	Spike	P	0 - 30
1959579	Primidone	22.8	Spike	P	0 - 30
1959579	Triclopyr	19.0	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 1959972
 Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	97.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	110	P	30 - 160
EPA 8321B	Diuron-d6	90.5	P	30 - 160
EPA 8321B	Diuron-d6	105	P	30 - 160
EPA 8321B	Diuron-d6	90.5	P	30 - 160
EPA 8321B	Diuron-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	40 - 160
EPA 8321B	Primidone-d5	118	P	30 - 160
EPA 8321B	Primidone-d5	118	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	40 - 160
EPA 8321B	Sucralose-d6	101	P	40 - 160
USGS O-2060-01	2,4-D-d3	93.9	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	97.5	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	110	P	30 - 160
USGS O-2060-01	Diuron-d6	90.5	P	30 - 160
USGS O-2060-01	Diuron-d6	105	P	30 - 160
USGS O-2060-01	Primidone-d5	118	P	30 - 160
USGS O-2060-01	Sucralose-d6	101	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1959973
Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	65.5	P	30 - 160

Lab Sample ID: 1959974
Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	69.9	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	60.1	P	34 - 101
EPA 8276	Decachlorobiphenyl	66.8	P	31 - 108
EPA 8276	PCNB	101	P	40 - 130

Lab Sample ID: 1959975
Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	107	P	71 - 126
EPA 8270D	Terbufos-d10	110	P	50 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A81498
Included Lab Sample IDs: 1959937, 1959938, 1959939, 1959940, 1959949

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: A81499
Included Lab Sample IDs: 1959945, 1959946, 1959947, 1959948, 1959951

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.2	99.6	P/P	90 - 110
O-Phosphate-P	99.5	99.5	P/P	90 - 110
O-Phosphate-P	99.6	98.8	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A81514
Included Lab Sample IDs: 1959937, 1959938, 1959939, 1959940, 1959949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	98.9	P/P	85 - 115
Color (true)	98.6	100	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A81524
Included Lab Sample IDs: 1959937, 1959938, 1959939, 1959940, 1959949

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A81524

Included Lab Sample IDs: 1959937, 1959938, 1959939, 1959940, 1959949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	107	104	P/P	90 - 110
Sulfate	100	106	P/P	90 - 110
Sulfate	106	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81551

Included Lab Sample IDs: 1959942, 1959943

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81556

Included Lab Sample IDs: 1959941

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81567

Included Lab Sample IDs: 1959944, 1959950

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.0	P/P	90 - 110
Total-P	99.0	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A81577

Included Lab Sample IDs: 1959972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	90.2	79.8	P/P	60 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81579

Included Lab Sample IDs: 1959941, 1959942, 1959943, 1959944, 1959950

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A81583

Included Lab Sample IDs: 1959972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	74.1	76.3	P/P	60 - 150
Glyphosate	71.0	78.0	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81585

Included Lab Sample IDs: 1959942, 1959943, 1959944, 1959950

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	98.6	P/P	90 - 110
Kjeldahl Nitrogen	98.9	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A81591

Included Lab Sample IDs: 1959972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	104	101	P/P	60 - 150

Reference Method: SM 2320 B-97

Run ID: A81614

Included Lab Sample IDs: 1959937, 1959938, 1959940, 1959949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	99.0	P/P	90 - 110
Total Alkalinity	99.0	97.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A81615

Included Lab Sample IDs: 1959991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Iron	102	101	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	99.0	99.9	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Zinc	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81617

Included Lab Sample IDs: 1959941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	108	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A81623

Included Lab Sample IDs: 1959973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	106	114	P/P	60 - 150
Aldicarb	125	124	P/P	60 - 150
Aldicarb Sulfone	110	109	P/P	50 - 150
Aldicarb Sulfoxide	111	119	P/P	50 - 150
Carbaryl	110	100	P/P	60 - 150
Carbofuran	110	109	P/P	50 - 150
Methiocarb	103	109	P/P	50 - 150
Methomyl	98.5	110	P/P	50 - 150
Oxamyl	111	110	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A81623
Included Lab Sample IDs: 1959973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propoxur	108	110	P/P	50 - 150

Reference Method: USGS O-2060-01
Run ID: A81623
Included Lab Sample IDs: 1959972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.9	82.4	P/P	50 - 150
Acetaminophen	107	113	P/P	60 - 150
Bentazon	97.5	101	P/P	50 - 150
Carbamazepine	118	120	P/P	60 - 150
Diuron	113	114	P/P	60 - 150
Fenuron	109	109	P/P	60 - 150
Fluridone	114	118	P/P	60 - 160
Imidacloprid	112	112	P/P	60 - 150
Linuron	107	113	P/P	60 - 150
MCPP	101	94.1	P/P	50 - 150
Primidone	106	102	P/P	60 - 150
Triclopyr	88.0	85.5	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A81629
Included Lab Sample IDs: 1959941, 1959942, 1959943, 1959944, 1959950

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.6	95.4	P/P	90 - 110
Ammonia-N	97.0	95.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A81632
Included Lab Sample IDs: 1959991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	98.0	96.8	P/P	90 - 110
Cadmium	96.8	96.6	P/P	90 - 110
Copper	95.0	94.7	P/P	90 - 110
Lead	94.8	94.8	P/P	90 - 110
Nickel	95.6	95.4	P/P	90 - 110
Silver	96.6	96.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A81687
Included Lab Sample IDs: 1959991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	97.6	92.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97
Run ID: A81689
Included Lab Sample IDs: 1959939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.2	97.2	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A81692
Included Lab Sample IDs: 1959941, 1959942, 1959943, 1959944, 1959950

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.9	99.2	P/P	90 - 110
Organic Carbon	99.2	98.6	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A81747
Included Lab Sample IDs: 1959937, 1959938, 1959939, 1959940, 1959949

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

Reference Method: EPA 8270D
Run ID: A81749
Included Lab Sample IDs: 1959975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	95.2		P	80 - 120
Ametryn	95.8		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	91.0		P	80 - 120
Azinphos Methyl	96.9		P	80 - 120
Bromacil	95.7		P	80 - 120
Butylate	97.5		P	80 - 120
Chlorpyrifos Ethyl	98.6		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Cyanazine	106		P	80 - 120
Demeton	97.6		P	80 - 120
Diazinon	94.1		P	80 - 120
Disulfoton	96.0		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	89.0		P	80 - 120
Ethoprop	103		P	80 - 120
Fenamiphos	95.2		P	80 - 120
Fipronil	96.0		P	80 - 120
Fipronil Sulfide	94.6		P	80 - 120
Fipronil Sulfone	97.0		P	80 - 120
Fonofos	97.5		P	80 - 120
Hexazinone	98.5		P	80 - 120
Malathion	96.8		P	80 - 120
Metaxyl	99.3		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	96.0		P	80 - 120
Mevinphos	88.0		P	80 - 120
Molinate	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A81749

Included Lab Sample IDs: 1959975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Norflurazon	95.9		P	80 - 120
Parathion Ethyl	94.3		P	80 - 120
Parathion Methyl	93.1		P	80 - 120
Pendimethalin	99.4		P	80 - 120
Phorate	96.3		P	80 - 120
Prometon	96.2		P	80 - 120
Prometryn	97.7		P	80 - 120
Simazine	91.3		P	80 - 120
Terbufos	97.6		P	80 - 120
Terbuthylazine	96.8		P	80 - 120

Reference Method: EPA 8276

Run ID: A81772

Included Lab Sample IDs: 1959974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	110		P	80 - 120
Toxaphene	108		P	80 - 120

Reference Method: EPA 8270D

Run ID: A81774

Included Lab Sample IDs: 1959974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	89.1		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	93.0		P	80 - 120
Beta-BHC	109		P	80 - 120
Carbophenothion	77.1*		F	80 - 120
Chlorothalonil	99.2		P	80 - 120
Cypermethrin	87.1		P	80 - 120
DDD-p,p'	95.5		P	80 - 120
DDE-p,p'	94.6		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	97.6		P	80 - 120
Dicofol	105		P	80 - 120
Dieldrin	96.6		P	80 - 120
Endosulfan I	90.6		P	80 - 120
Endosulfan II	90.0		P	80 - 120
Endosulfan Sulfate	98.5		P	80 - 120
Endrin	90.9		P	80 - 120
Endrin Aldehyde	89.1		P	80 - 120
Endrin Ketone	97.8		P	80 - 120
Gamma-BHC	95.1		P	80 - 120
Gamma-Chlordane	90.6		P	80 - 120
Heptachlor	94.0		P	80 - 120
Heptachlor Epoxide	92.9		P	80 - 120
Methoxychlor	107		P	80 - 120
Mirex	102		P	80 - 120
Permethrin	90.9		P	80 - 120
Trifluralin	99.1		P	80 - 120

Quality Assurance Report Calibration Verification

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							2.90	
EPA 200.7 Rev. 4.4	Calcium	107		102	105				0.0851
	Iron	108		107	109	110			0.984
	Magnesium	107		107	107				1.13
	Potassium	106		109	105	105			0.238
	Sodium	111		104	109	109			0.272
	Zinc	103		103	102	103			1.39
EPA 200.8 Rev. 5.4	Arsenic	98.7		99.8	97.1	98.1			1.02
	Cadmium	94.8		95.7	97.8	98.6			0.805
	Chromium	100		100	91.4	98.0			6.69
	Copper	93.9		91.9	90.3	90.1			0.251
	Lead	94.0		95.3	94.4	93.6			0.797
	Nickel	97.5		94.6	92.8	93.4			0.644
	Silver	104		102	102	103			1.05
EPA 300.0 Rev. 2.1	Chloride	98.4		96.7	90.6			0.134	
	Sulfate	95.2		93.2	91.0				
EPA 350.1 Rev. 2.0	Ammonia-N	95.6		95.1	93.9				1.17
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107		106	99.2				4.22
	Kjeldahl Nitrogen	98.9		104	100				2.67
EPA 353.2 Rev. 2.0	NO2NO3-N	106		104					0.0
EPA 365.1 Rev. 2.0	Total-P	102		99.0	98.8				0.188
	Total-P	102		97.0	91.5				3.41
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8		100	100				0.300
EPA 8270D	Acetochlor	96.6	92.4	90.0	90.4	4.40			0.467
	Alachlor	97.9	93.2	86.8	89.1	4.86			2.62
	Aldrin	47.8	51.3	46.2	45.9	7.13			0.607
	Alpha-BHC	89.9	84.0	79.3	83.0	6.76			4.50
	Alpha-Chlordane	71.5	72.7	56.4	64.1	1.71			12.9
	Ametryn	68.3	91.1	110	146	28.6			27.8
	Atrazine	102	103	100	98.1	1.20			1.42
	Atrazine Desethyl	105	105	118	115	0.309			2.70
	Azinphos Methyl	108	108	102	98.3	0.805			3.60
	Beta-BHC	95.2	95.8	73.9	94.7	0.567			24.6
	Bromacil	58.3	58.5	116	105	0.204			10.1
	Butylate	62.8	58.8	43.0	39.7	6.47			7.79
	Carbophenothion	49.9	32.3	80.1	92.0	42.8			13.9
	Chlorothalonil	76.0	67.7	54.8	41.4	11.5			27.9
	Chlorpyrifos Ethyl	94.8	96.9	102	92.9	2.26			9.22
	Chlorpyrifos Methyl	97.9	103	115	101	5.33			12.5
	Cyanazine	255	234	226	191	8.67			16.9
	Cypermethrin	100	109	91.4	95.4	8.46			4.28
	DDD-p,p'	83.5	78.8	72.3	66.4	5.84			8.49
	DDE-p,p'	68.9	73.1	58.4	65.2	5.89			11.0
	DDT-p,p'	78.4	75.9	72.4	70.5	3.36			2.62
	Delta-BHC	93.3	91.6	94.3	107	1.80			12.9
	Demeton	64.4	88.1	87.2	89.9	31.1			3.14

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Diazinon	92.4	84.2	86.3	79.8	9.22	7.79
	Dicofol	70.6	66.8	50.0	58.1	5.45	15.1
	Dieldrin	77.3	80.0	60.6	69.5	3.36	13.7
	Disulfoton	79.5	100	113	97.7	22.8	14.6
	Endosulfan I	78.0	92.9	58.9	67.5	17.5	13.7
	Endosulfan II	90.3	91.3	61.8	81.4	1.02	27.3
	Endosulfan Sulfate	96.5	107	96.8	78.2	10.2	21.2
	Endrin	83.6	78.9	62.2	71.0	5.81	13.3
	Endrin Aldehyde	85.1	86.4	60.9	73.4	1.54	18.6
	Endrin Ketone	96.6	93.4	85.9	88.3	3.35	2.69
	EPTC	60.3	56.0	35.4	38.6	7.43	8.59
	Ethion	96.2	103	100	92.0	6.91	8.34
	Ethoprop	95.0	106	125	108	10.6	15.1
	Fenamiphos	90.8	101	137	108	11.1	23.7
	Fipronil	94.9	93.9	91.6	89.6	1.05	2.19
	Fipronil Sulfide	88.5	95.8	106	42.5	7.97	85.7
	Fipronil Sulfone	86.2	91.3	96.7	86.8	5.78	10.7
	Fonofos	93.7	98.9	116	100	5.34	14.6
	Gamma-BHC	79.3	74.7	83.1	81.8	5.85	1.59
	Gamma-Chlordane	70.3	71.6	57.3	63.5	1.85	10.4
	Heptachlor	67.7	68.2	53.0	49.4	0.798	7.10
	Heptachlor Epoxide	76.3	76.6	59.9	67.8	0.461	12.5
	Hexazinone	96.5	93.6	93.2	88.1	3.01	4.45
	Malathion	93.8	101	103	103	7.23	0.358
	Metalaxyl	94.4	94.1	97.9	85.3	0.259	13.7
	Methoxychlor	99.4	95.0	74.7	79.8	4.59	6.51
	Metolachlor	98.6	93.8	95.0	90.9	5.04	4.45
	Metribuzin	163	165	202	223	1.57	10.0
	Mevinphos	69.9	68.0	119	88.8	2.78	29.0
	Mirex	72.4	67.2	65.1	58.6	7.46	10.4
	Molinate	64.9	60.6	45.6	49.3	6.85	7.89
	Norflurazon	88.5	86.2	78.3	77.5	2.60	1.08
	Parathion Ethyl	95.8	95.6	97.5	91.2	0.223	6.65
	Parathion Methyl	99.6	100	107	100	0.623	6.22
	Pendimethalin	103	104	104	99.3	0.737	4.24
	Permethrin	89.8	90.6	78.1	78.5	0.885	0.464
	Phorate	77.7	86.8	105	94.7	11.0	10.6
	Prometon	87.1	84.6	80.1	73.5	2.92	6.38
	Prometryn	91.7	93.5	90.5	86.0	1.97	5.10
	Simazine	99.8	99.0	105	99.7	0.801	4.91
	Terbufos	90.3	98.2	114	99.6	8.31	13.5
	Terbuthylazine	98.9	96.6	95.3	93.0	2.38	2.48
	Trifluralin	78.7	76.1	69.1	64.2	3.33	7.36
EPA 8276	Chlordane	68.6	70.9	73.1	68.7	3.24	6.21
	Toxaphene	77.7	79.8	80.2	78.7	2.67	1.89
EPA 8321B	3-Hydroxycarbofuran	102		114	133		15.3
	Aldicarb	122		127	164		25.3
	Aldicarb Sulfone	106		143	142		0.575
	Aldicarb Sulfoxide	101		107	87.3		20.4
	AMPA	114		87.8	87.3		0.571
	Carbaryl	88.5		67.7	73.7		8.17
	Carbofuran	92.5		78.6	82.5		4.81
	Glyphosate	114		103	108		4.09
	Methiocarb	93.3		75.8	78.2		3.04

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Methomyl	99.5	99.4	89.6		10.4
	Oxamyl	96.7	100	97.4		2.88
	Propoxur	86.1	68.8	75.2		8.94
	Pyraclostrobin	79.3	111	70.4		44.9
	Sucralose	102	87.4	97.6		11.0
SM 2120 B	Color (true)				0.0648	
	Color (true)				0.401	
SM 2320 B-97	Total Alkalinity	98.8			1.01	
	Total Alkalinity	99.5			0.671	
SM 2540 C-97	TDS				4.48	
SM 4500 F-C-97	Fluoride	95.4				1.96
SM 5310 B-00	Organic Carbon	98.8	105			1.42
USGS O-2060-01	2,4-D	75.3	113	103		8.07
	Acetaminophen	98.5	87.9	109		21.2
	Bentazon	78.6	148	105		12.6
	Carbamazepine	114	100	105		4.22
	Diuron	102	74.3	85.4		12.2
	Fenuron	114	107	93.4		13.3
	Fluridone	120	83.5	47.8		36.3
	Imidacloprid	113	161	223		28.3
	Linuron	110	87.7	87.0		0.843
	MCP	79.5	97.1	75.7		23.6
	Primidone	109	121	96.4		22.8
	Triclopyr	79.5	90.9	75.1		19.0

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1959937, 1959938, 1959939, 1959940, 1959949
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1959991
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1959991
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1959937, 1959938, 1959939, 1959940, 1959949
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1959937, 1959938, 1959939, 1959940, 1959949
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1959941, 1959942, 1959943, 1959944, 1959950
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1959941, 1959942, 1959943, 1959944, 1959950
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1959941, 1959942, 1959943, 1959944, 1959950
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1959941, 1959942, 1959943, 1959944, 1959950
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1959945, 1959946, 1959947, 1959948, 1959951
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1959974
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1959975
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1959974
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1959972
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1959973

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1959972
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1959972
SM 2120 B / E31780	True Color measured at 450 nm	1959937, 1959938, 1959939, 1959940, 1959949
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1959937, 1959938, 1959939, 1959940, 1959949
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1959937, 1959938, 1959939, 1959940, 1959949
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1959937, 1959938, 1959939, 1959940, 1959949
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1959937, 1959938, 1959939, 1959940, 1959949
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1959941, 1959942, 1959943, 1959944, 1959950
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1959972
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1959972

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	01/17/2018			01/17/2018 16:19	DeAsia Armster	1959937, 1959938, 1959939, 1959940, 1959949
EPA 200.7 Rev. 4.4	01/17/2018	01/22/2018	Elliott D. Healy	01/23/2018	Martin Acosta	1959991
EPA 200.8 Rev. 5.4	01/17/2018	01/22/2018	Elliott D. Healy	01/24/2018	Robert K Palmer	1959991
	01/17/2018	01/22/2018	Elliott D. Healy	01/25/2018	Robert K Palmer	1959991
EPA 300.0 Rev. 2.1	01/17/2018			01/18/2018	Julia Storbeck	1959939
	01/17/2018			01/19/2018	Julia Storbeck	1959937, 1959938, 1959940, 1959949
EPA 350.1 Rev. 2.0	01/17/2018			01/24/2018	Ping Hua	1959941, 1959942, 1959943, 1959944, 1959950
EPA 351.2 Rev. 2.0	01/17/2018	01/19/2018	Adrian Shelby	01/22/2018	Joseph Suarez	1959942, 1959943, 1959944, 1959950
	01/17/2018	01/23/2018	Adrian Shelby	01/24/2018	Joseph Suarez	1959941
EPA 353.2 Rev. 2.0	01/17/2018			01/22/2018	Lauren Bottorf	1959941, 1959942, 1959943, 1959944, 1959950
EPA 365.1 Rev. 2.0	01/17/2018	01/18/2018	Sima Feizi	01/19/2018	Lipi Saha	1959941, 1959942, 1959943
	01/17/2018	01/19/2018	Sima Feizi	01/22/2018	Beverly Y. Sanders	1959944, 1959950
EPA 365.1 Rev. 2.0 dissolved	01/17/2018			01/17/2018 16:23	Megan Treadwell	1959945
	01/17/2018			01/17/2018 16:38	Megan Treadwell	1959946
	01/17/2018			01/17/2018 16:39	Megan Treadwell	1959947
	01/17/2018			01/17/2018 16:40	Megan Treadwell	1959948
	01/17/2018			01/17/2018 17:03	Megan Treadwell	1959951
EPA 8270D	01/17/2018	01/22/2018	John Kaba	01/25/2018	Vandana T. Nagar	1959974
	01/17/2018	01/22/2018	Rasheda Ghaffari	01/25/2018	Vandana T. Nagar	1959975
EPA 8276	01/17/2018	01/22/2018	John Kaba	01/31/2018	John P. Burgos	1959974
EPA 8321B	01/17/2018	01/19/2018	Hoor Shaik	01/20/2018	Julie Michelle Frank	1959973
	01/17/2018	01/19/2018	Juyoung Kim	01/20/2018	Juyoung Kim	1959972
	01/17/2018	01/19/2018	Juyoung Kim	01/21/2018	Juyoung Kim	1959972
	01/17/2018	01/22/2018	Juyoung Kim	01/22/2018	Juyoung Kim	1959972
SM 2120 B	01/17/2018			01/17/2018 17:21	Tanya Welborn	1959940
	01/17/2018			01/17/2018 17:22	Tanya Welborn	1959949
	01/17/2018			01/17/2018 17:29	Tanya Welborn	1959937
	01/17/2018			01/17/2018 17:30	Tanya Welborn	1959938
	01/17/2018			01/17/2018 17:31	Tanya Welborn	1959939
SM 2320 B-97	01/17/2018			01/23/2018	Dale L. Simmons	1959937, 1959938, 1959940, 1959949
	01/17/2018			01/27/2018	Lauren Bottorf	1959939
SM 2540 C-97	01/17/2018			01/19/2018	Yijie Li	1959937, 1959938, 1959939, 1959940, 1959949
SM 2540 D-97	01/17/2018			01/19/2018	Yijie Li	1959937, 1959938, 1959939, 1959940, 1959949
SM 4500 F-C-97	01/17/2018			01/30/2018	Lauren Bottorf	1959937, 1959938, 1959939, 1959940, 1959949
SM 5310 B-00	01/17/2018			01/26/2018	Megan Treadwell	1959941, 1959942, 1959943, 1959944, 1959950

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
USGS O-2060-01	01/17/2018	01/19/2018	Hoor Shaik	01/20/2018	Julie Michelle Frank	1959972