

Chemical Analysis Report

NE-DIST-2022-03-29-01

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

Event Description: **Moses Creek 2022**

Request ID: **RQ-2022-03-28-12**

Customer: **NE-DIST**

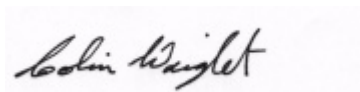
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 21-APR-2022 10:30

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program 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: Moses Creek at Preserve Dock

Collection Date/Time: 03/28/2022 11:35

Field ID: G5NE0004

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2314905	EPA 180.1 Rev. 2.0	Turbidity	7.2		NTU	P411716	
	SM 2320 B-2011	Total Alkalinity	50		mg CaCO3/L	P411966	
	SM 2540 D-2011	TSS	17	AJ	mg/L	P411903	RPD
	SM 4500-F- C-2011	Fluoride	0.090	I	mg F/L	P411970	
2314906	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P411760	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P412165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P411736	
	EPA 365.1 Rev. 2.0	Total-P	0.095		mg P/L	P411944	
	SM 5310 B-2011	Organic Carbon	42		mg C/L	P411792	

Ref. Method and Comment:
 SM 2540 D-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Moses CR at US 1

Collection Date/Time: 03/28/2022 10:20

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2314924	EPA 8321B	Aldicarb	0.020	U	ug/L	P411658	
		Aldicarb Sulfone	0.0020	U	ug/L	P411658	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P411658	
		Carbaryl	0.0020	U	ug/L	P411658	
		Carbofuran	0.0020	U	ug/L	P411658	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P411658	
		Methiocarb	0.0020	U	ug/L	P411658	
		Methomyl	0.0020	U	ug/L	P411658	
		Oxamyl	0.0020	U	ug/L	P411658	
		Propoxur	0.0020	U	ug/L	P411658	
2314925		2,4-D	0.0020	U	ug/L	P411659	
		Acesulfame K	0.10	U	ug/L	P411656	
		2,4,5-T	0.0040	U	ug/L	P411659	
		AMPA	0.10	U	ug/L	P411656	
		Acetaminophen	0.0080	U	ug/L	P411659	
		Acetamiprid	0.0020	U	ug/L	P411659	
		Endothall	0.25	U	ug/L	P411656	
		Glufosinate	0.10	U	ug/L	P411656	
		Glyphosate	0.10	U	ug/L	P411656	
		Afidopyropen	0.0020	U	ug/L	P411659	
		Bentazon	0.012		ug/L	P411659	
		Sucralose	0.012	I	ug/L	P411656	
		Benzovindiflupyr	0.0020	U	ug/L	P411659	
		Carbamazepine	8.0E-04	U	ug/L	P411659	
		Clothianidin	0.0020	U	ug/L	P411659	
		Dinotefuran	0.0020	U	ug/L	P411659	
		Diuron	0.0020	U	ug/L	P411659	
		Fenuron	0.016	U	ug/L	P411659	
		Fluridone	8.0E-04	U	ug/L	P411659	
		Imazapyr	0.075		ug/L	P411659	
		Hydrocodone	0.0020	U	ug/L	P411659	
		Ibuprofen	0.020	U	ug/L	P411659	
		Imidacloprid	0.0055	I	ug/L	P411659	MS
		Linuron	0.0040	U	ug/L	P411659	
		Mandestrobin	0.0020	U	ug/L	P411659	
		MCPP	0.0020	U	ug/L	P411659	
		Naproxen	0.0080	U	ug/L	P411659	
		Primidone	0.0040	U	ug/L	P411659	
		Pyraclostrobin	0.0020	U	ug/L	P411659	
		Silvex	0.0040	U	ug/L	P411659	
		Thiamethoxam	0.0020	U	ug/L	P411659	MS
		Tolfenpyrad	0.0020	U	ug/L	P411659	
		Triclopyr	0.0040	U	ug/L	P411659	
2314926	EPA 8270E	Aldrin	0.67	U	ng/L	P411697	

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2314926	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P411697	
		Alpha-Chlordane	0.21	U	ng/L	P411697	
		PCB-1016	2.1	U	ng/L	P411697	
		Beta-BHC	0.17	I	ng/L	P411697	
		PCB-1221	2.1	U	ng/L	P411697	
		Beta-Cyfluthrin**	1.3	U	ng/L	P411697	
		PCB-1232	2.1	U	ng/L	P411697	
		Bifenthrin**	0.51	U	ng/L	P411697	
		PCB-1242	2.1	U	ng/L	P411697	
		PCB-1248	2.1	U	ng/L	P411697	
		Chlorothalonil	1.3	U	ng/L	P411697	RPD
		PCB-1254	2.1	U	ng/L	P411697	
		Cis-Nonachlor**	0.21	U	ng/L	P411697	
		PCB-1260	2.1	U	ng/L	P411697	
		Cypermethrin	1.5	U	ng/L	P411697	
		Dacthal**	0.15	U	ng/L	P411697	
		DDD-p,p'	0.26	U	ng/L	P411697	
		DDE-p,p'	0.21	U	ng/L	P411697	
		DDT-p,p'	0.26	U	ng/L	P411697	
		Delta-BHC	0.41	U	ng/L	P411697	
		Deltamethrin**	1.3	U	ng/L	P411697	
		Dichlobenil**	0.26	U	ng/L	P411697	
		Dicofol	1.3	U	ng/L	P411697	
		Dieldrin	0.41	U	ng/L	P411697	
		Endosulfan I	0.41	U	ng/L	P411697	
		Endosulfan II	0.41	U	ng/L	P411697	
		Endosulfan Sulfate	0.31	U	ng/L	P411697	
		Endrin	0.41	U	ng/L	P411697	
		Endrin Aldehyde	0.77	U	ng/L	P411697	
		Endrin Ketone	0.41	U	ng/L	P411697	
		Esfenvalerate**	0.77	U	ng/L	P411697	
		Ethalfuralin**	0.15	U	ng/L	P411697	
		Fenpropathrin**	0.26	U	ng/L	P411697	
		Gamma-BHC	0.13	U	ng/L	P411697	
		Gamma-Chlordane	0.21	U	ng/L	P411697	
		Heptachlor	0.21	U	ng/L	P411697	
		Heptachlor Epoxide	0.26	U	ng/L	P411697	
		Hexachlorobenzene**	1.0	U	ng/L	P411697	
		Kepone**	5.1	U	ng/L	P411697	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P411697	
		Methoprene**	0.77	U	ng/L	P411697	
		Methoxychlor	0.31	U	ng/L	P411697	
		MGK-264**	0.21	U	ng/L	P411697	
		Mirex	0.72	U	ng/L	P411697	
		Oxychlordane**	0.31	U	ng/L	P411697	

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2314926	EPA 8270E	Permethrin	1.6	U	ng/L	P411697	
		Phenothrin**	0.93	U	ng/L	P411697	
		Piperonyl Butoxide**	0.15	U	ng/L	P411697	
		Prallethrin**	2.1	U	ng/L	P411697	
		Tau-Fluvalinate**	0.26	U	ng/L	P411697	
		Tetramethrin**	0.77	U	ng/L	P411697	
		Trans-Nonachlor**	0.21	U	ng/L	P411697	
		Triclosan Methyl**	0.15	U	ng/L	P411697	
		Trifluralin	0.21	U	ng/L	P411697	
		Chlordane	2.6	U	ng/L	P411697	
	EPA 8276	Toxaphene	15	U	ng/L	P411697	
		Oxybenzone**	10	U	ng/L	P411974	
		Acetochlor	0.26	U	ng/L	P411974	
		Octinoxate**	28	I QJ	ng/L	P412360	SUR
		Alachlor	0.26	U	ng/L	P411974	
		Avobenzone**	100	U	ng/L	P411974	
		Ametryn	1.5	I	ng/L	P411974	
		Atrazine	79		ng/L	P411974	
		Atrazine Desethyl	11		ng/L	P411974	
		Azinphos Methyl	2.1	U	ng/L	P411974	
	EPA 8270E	Azoxystrobin**	1.7	I	ng/L	P411974	
		Bromacil	2.6		ng/L	P411974	
		Butylate	0.41	U	ng/L	P411974	
		Caffeine**	10	I Q	ng/L	P412360	
		Carbophenothion	0.21	U	ng/L	P411974	MS
		Carfentrazone Ethyl**	0.10	U	ng/L	P411974	
		Chlorfenapyr**	0.18	U	ng/L	P411974	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P411974	
		Chlorpyrifos Methyl	0.051	U	ng/L	P411974	
		Coumaphos**	0.51	U	ng/L	P411974	
		Cyanazine	3.3	U	ng/L	P411974	
		Cyprodinil**	0.10	U	ng/L	P411974	
		Demeton	1.5	U	ng/L	P411974	
		Diazinon	0.13	U	ng/L	P411974	
		Difenoconazole**	0.62	U	ng/L	P411974	
		Dimethenamid**	0.10	U	ng/L	P411974	
		Dimethomorph**	0.18	U	ng/L	P411974	
		Disulfoton	0.51	U	ng/L	P411974	
		Dithiopyr**	0.18	U	ng/L	P411974	
		EPTC	1.3	U	ng/L	P411974	
		Ethion	0.15	U	ng/L	P411974	
		Ethoprop	0.10	U	ng/L	P411974	
		Etridiazole**	0.15	U	ng/L	P411974	
		Fenamiphos	0.51	U	ng/L	P411974	
		Fenbuconazole**	0.13	U	ng/L	P411974	

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2314927	EPA 8270E	Fipronil	0.26	I	ng/L	P411974	
		Fipronil DesulfinyI**	0.39	I	ng/L	P411974	
		Fipronil Sulfide	0.15	U	ng/L	P411974	
		Fipronil Sulfone	0.36	I	ng/L	P411974	
		Fluazifop-P-butyl**	0.10	U	ng/L	P411974	
		Fludioxonil**	0.13	U	ng/L	P411974	
		Flumioxazin**	1.8	U	ng/L	P411974	RPD
		Flutolanil**	0.10	U	ng/L	P411974	
		Fluxapyroxad**	0.10	U	ng/L	P411974	
		Fonofos	0.21	U	ng/L	P411974	
		Hexazinone	0.71	I	ng/L	P411974	
		Imazalil**	0.77	U	ng/L	P411974	
		Iprodione**	0.62	U	ng/L	P411974	
		Loratadine**	0.10	U	ng/L	P411974	
		Malathion	0.36	U	ng/L	P411974	
		Metalaxyl	1.4	I	ng/L	P411974	
		Metolachlor	7.2		ng/L	P411974	
		Metribuzin	2.6	U	ng/L	P411974	
		Mevinphos	1.1	U	ng/L	P411974	
		Molinate	0.31	U	ng/L	P411974	
		Myclobutanil**	1.0	I	ng/L	P411974	
		Naled**	1.5	U	ng/L	P411974	
		Napropamide**	0.41	U	ng/L	P411974	
		Norflurazon	0.51	U	ng/L	P411974	
		Oxadiazon	1.6	Q	ng/L	P412360	
		Oxyfluorfen**	0.15	U	ng/L	P411974	
		Parathion Ethyl	0.26	U	ng/L	P411974	
		Parathion Methyl	0.57	U	ng/L	P411974	
		Pendimethalin	1.0	U	ng/L	P411974	
		Phenytol**	3.6	U	ng/L	P411974	
		Phorate	0.54	U	ng/L	P411974	
		Prodiamine**	0.22	I	ng/L	P411974	
		Prometon	21		ng/L	P411974	
		Prometryn	0.21	U	ng/L	P411974	
		Pronamide**	0.15	U	ng/L	P411974	
		Propanil**	0.13	U	ng/L	P411974	
		Propargite**	1.5	U	ng/L	P411974	
		Propiconazole**	2.0	I	ng/L	P411974	
		Pyraflufen Ethyl**	0.26	UJ	ng/L	P411974	LCS
		Pyridaben**	0.46	U	ng/L	P411974	
		Pyriproxyfen**	0.13	U	ng/L	P411974	
		Simazine	9.4		ng/L	P411974	
		Stirophos**	0.14	I	ng/L	P411974	
		Sulfentrazone**	1.9	I	ng/L	P411974	
		Tebuconazole**	0.65	I	ng/L	P411974	RPD

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2314927	EPA 8270E	Terbufos	0.10	U	ng/L	P411974	
		Terbutylazine	0.44	U	ng/L	P411974	
		Thiobencarb**	0.62	U	ng/L	P411974	
		Triadimefon**	0.26	U	ng/L	P411974	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.
EPA 8270E: Sample expired for preparation for octinoxate due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Sample expired for preparation for caffeine and oxadiazon due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction.

Sample Location: Moultrie CR @ US 1

Collection Date/Time: 03/28/2022 10:50

Field ID: 27010055

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2314907	EPA 180.1 Rev. 2.0	Turbidity	7.0		NTU	P411716	
	SM 2320 B-2011	Total Alkalinity	78		mg CaCO3/L	P412056	
	SM 2540 D-2011	TSS	8	IA	mg/L	P411894	
	SM 4500-F- C-2011	Fluoride	0.40		mg F/L	P412058	
2314908	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P411759	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P411694	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.054		mg N/L	P411829	
	EPA 365.1 Rev. 2.0	Total-P	0.081		mg P/L	P411947	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P411793	
2314952	EPA 200.7 Rev. 4.4	Calcium	146		mg/L	P411777	
		Iron	530		ug/L	P411777	
		Magnesium	385		mg/L	P411777	
		Strontium	2.44E+03		ug/L	P411777	
		Tin	60	U	ug/L	P411777	
		Vanadium	6.0	U	ug/L	P411777	
		Zinc	18	I	ug/L	P411777	
	EPA 200.8 Rev. 5.4	Aluminum	610		ug/L	P411777	
		Antimony	0.20	U	ug/L	P411777	
		Arsenic	1.80		ug/L	P411777	
		Beryllium	0.053	I	ug/L	P411777	
		Cadmium	0.080	U	ug/L	P411777	
		Chromium	1.6	U	ug/L	P411777	
		Cobalt	0.30	I	ug/L	P411777	
		Copper	3.4		ug/L	P411777	
		Lead	0.80	U	ug/L	P411777	
		Manganese	16.4		ug/L	P411777	
		Molybdenum	3.8		ug/L	P411777	
		Nickel	2.0	U	ug/L	P411777	
		Selenium	0.80	U	ug/L	P411777	
		Silver	0.040	U	ug/L	P411777	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium 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: P411716

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P411777

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P411777

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411759

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411760

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411694

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

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Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412165

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411736

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411829

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411944

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411947

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

Reference Method: EPA 8270E
Batch ID: P411697

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P411697

Component	Result	Code	Units
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411697

Component	Result	Code	Units
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P411974

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E
Batch ID: P411974

Component	Result	Code	Units
Avobenzene	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L

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Reference Method: EPA 8270E
Batch ID: P411974

Component	Result	Code	Units
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411974

Component	Result	Code	Units
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P412360

Component	Result	Code	Units
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P412360

Component	Result	Code	Units
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Reference Method: EPA 8276
Batch ID: P411697

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P411656

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P411658

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: P411659

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P411659

Component	Result	Code	Units
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P411966

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

Reference Method: SM 2320 B-2011

Batch ID: P412056

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

Reference Method: SM 2540 D-2011

Batch ID: P411894

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P411903

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P411970

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

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Reference Method: SM 4500-F- C-2011
Batch ID: P412058

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P411792

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

Reference Method: SM 5310 B-2011
Batch ID: P411793

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P411716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.2		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P411777

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	106		P	85 - 115
Magnesium	103		P	85 - 115
Strontium	101		P	85 - 115
Tin	101		P	85 - 115
Vanadium	92.9		P	85 - 115
Zinc	98.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P411777

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	98.8		P	85 - 115
Arsenic	96.9		P	85 - 115
Beryllium	92.0		P	85 - 115
Cadmium	97.2		P	85 - 115
Chromium	96.6		P	85 - 115
Cobalt	98.2		P	85 - 115
Copper	96.5		P	85 - 115
Lead	95.9		P	85 - 115
Manganese	98.6		P	85 - 115
Molybdenum	96.3		P	85 - 115
Nickel	97.3		P	85 - 115
Selenium	96.5		P	85 - 115
Silver	101		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P411759

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P411760

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P411694

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

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Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P412165

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P411736

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P411829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411944

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: P411947

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

Reference Method: EPA 8270E

Batch ID: P411697

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.5		P	10 - 93.0
Alpha-BHC	89.0		P	75 - 106
Alpha-Chlordane	61.4		P	50 - 109
Beta-BHC	99.3		P	65 - 135
Beta-Cyfluthrin	58.9		P	23 - 167
Bifenthrin	42.9		P	11 - 123
Chlorothalonil	154		P	26 - 182
Cis-Nonachlor	61.1		P	40 - 111
Cypermethrin	65.1		P	25 - 155
Dacthal	82.8		P	73 - 112
DDD-p,p'	58.0		P	47 - 108
DDE-p,p'	60.0		P	48 - 107
DDT-p,p'	61.0		P	49 - 111
Delta-BHC	104		P	68 - 143
Deltamethrin	62.8		P	16 - 176
Dichlobenil	72.8		P	32 - 113
Dicofol	65.3		P	50 - 108
Dieldrin	65.9		P	56 - 110
Endosulfan I	73.1		P	60 - 105
Endosulfan II	73.0		P	50 - 120
Endosulfan Sulfate	73.7		P	55 - 121
Endrin	67.5		P	31 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P411697

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	74.6		P	36 - 116
Endrin Ketone	99.2		P	56 - 130
Esfenvalerate	56.6		P	10 - 179
Ethalfuralin	61.5		P	49 - 99.0
Fenpropathrin	60.1		P	35 - 119
Gamma-BHC	90.2		P	72 - 115
Gamma-Chlordane	59.8		P	45 - 107
Heptachlor	54.9		P	41 - 100
Heptachlor Epoxide	75.3		P	58 - 106
Hexachlorobenzene	63.7		P	39 - 100
Kepone	67.5		P	10 - 191
Lambda-Cyhalothrin	49.2		P	10 - 186
Methoprene	47.1		P	10 - 129
Methoxychlor	80.5		P	61 - 111
MGK-264	66.4		P	20 - 123
Mirex	43.4		P	10 - 182
Oxychlordane	60.9		P	39 - 110
PCB-1016	60.7		P	49 - 111
PCB-1260	65.7		P	42 - 116
Permethrin	61.4		P	26 - 152
Phenothrin	41.9		P	10 - 109
Piperonyl Butoxide	83.2		P	27 - 142
Prallethrin	56.3		P	14 - 109
Tau-Fluvalinate	52.5		P	16 - 134
Tetramethrin	68.6		P	10 - 125
Trans-Nonachlor	61.8		P	45 - 107
Triclosan Methyl	72.0		P	60 - 110
Trifluralin	61.1		P	49 - 98.0

Reference Method: EPA 8270E

Batch ID: P411974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	106		P	70 - 121
Alachlor	92.9		P	68 - 119
Ametryn	109		P	64 - 139
Atrazine	91.2		P	76 - 120
Atrazine Desethyl	66.0		P	44 - 126
Avobenzone	142		P	76 - 212
Azinphos Methyl	74.7		P	43 - 192
Azoxystrobin	86.8		P	36 - 224
Bromacil	111		P	52 - 121
Butylate	63.6		P	28 - 91.0
Carbophenothion	111		P	56 - 129
Carfentrazone Ethyl	126		P	60 - 141
Chlorfenapyr	83.6		P	56 - 115
Chlorpyrifos Ethyl	93.9		P	60 - 118
Chlorpyrifos Methyl	90.6		P	68 - 119
Coumaphos	178		P	18 - 250
Cyanazine	181		P	61 - 250
Cyprodinil	123		P	55 - 145
Demeton	72.7		P	30 - 159

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P411974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diazinon	104		P	70 - 123
Difenoconazole	85.7		P	49 - 204
Dimethenamid	85.7		P	64 - 115
Dimethomorph	97.2		P	12 - 219
Disulfoton	81.4		P	44 - 125
Dithiopyr	98.2		P	64 - 115
EPTC	59.6		P	28 - 86.0
Ethion	81.5		P	33 - 125
Ethoprop	91.2		P	64 - 116
Etridiazole	75.4		P	34 - 91.0
Fenamiphos	106		P	12 - 127
Fenbuconazole	149		P	59 - 151
Fipronil	107		P	67 - 129
Fipronil Desulfinyl	103		P	65 - 127
Fipronil Sulfide	87.1		P	61 - 116
Fipronil Sulfone	105		P	55 - 117
Fluazifop-P-butyl	93.5		P	62 - 127
Fludioxonil	116		P	62 - 128
Flumioxazin	135		P	33 - 250
Flutolanil	94.3		P	56 - 127
Fluxapyroxad	75.0		P	45 - 128
Fonofos	84.3		P	62 - 111
Hexazinone	94.8		P	46 - 139
Imazalil	65.6		P	38 - 142
Iprodione	88.9		P	47 - 135
Loratadine	62.6		P	10 - 244
Malathion	108		P	61 - 139
Metalaxyl	89.2		P	10 - 119
Metolachlor	100		P	65 - 118
Metribuzin	85.0		P	51 - 250
Mevinphos	81.1		P	53 - 121
Molinate	72.2		P	42 - 96.0
Myclobutanil	110		P	55 - 128
Naled	86.8		P	10 - 98.0
Napropamide	87.4		P	49 - 121
Norflurazon	61.4		P	61 - 126
Oxybenzone	88.8		P	61 - 139
Oxyfluorfen	113		P	64 - 137
Parathion Ethyl	92.6		P	70 - 112
Parathion Methyl	101		P	76 - 133
Pendimethalin	80.2		P	52 - 117
Phenytoin	133		P	10 - 199
Phorate	91.1		P	48 - 121
Prodiamine	130		P	26 - 142
Prometon	120		P	43 - 123
Prometryn	113		P	66 - 127
Pronamide	101		P	75 - 121
Propanil	92.8		P	45 - 150
Propargite	159		P	42 - 208
Propiconazole	67.8		P	60 - 125
Pyraflufen Ethyl	141		F	70 - 138
Pyridaben	205		P	35 - 245

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P411974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyriproxyfen	90.6		P	30 - 149
Simazine	93.9		P	72 - 125
Stirophos	89.6		P	29 - 164
Sulfentrazone	98.7		P	21 - 139
Tebuconazole	45.9		P	10 - 115
Terbufos	108		P	60 - 123
Terbuthylazine	89.4		P	72 - 115
Thiobencarb	95.5		P	31 - 139
Triadimefon	87.7		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P412360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	81.0	76.9	P/P	50 - 134
Octinoxate	124	101	P/P	30 - 159
Oxadiazon	63.5	64.3	P/P	59 - 116

Reference Method: EPA 8276
Batch ID: P411697

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	62.1		P	61 - 118
Toxaphene	60.3		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P411656

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	109		P	40 - 150
AMPA	111		P	40 - 150
Endothall	80.1		P	40 - 150
Glufosinate	137		P	40 - 150
Glyphosate	129		P	40 - 150
Sucralose	111		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P411658

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	101		P	30 - 160
Aldicarb	62.9		P	30 - 150
Aldicarb Sulfone	98.3		P	30 - 160
Aldicarb Sulfoxide	108		P	30 - 160
Carbaryl	91.4		P	30 - 160
Carbofuran	99.6		P	30 - 160
Methiocarb	82.8		P	30 - 160
Methomyl	102		P	30 - 160
Oxamyl	98.5		P	30 - 160
Propoxur	103		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P411659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	128		P	30 - 160
2,4,5-T	85.1		P	30 - 160
Acetaminophen	86.3		P	30 - 150
Acetamiprid	106		P	30 - 160
Afidopyropen	84.1		P	30 - 160
Bentazon	39.6		P	30 - 150
Benzovindiflupyr	105		P	30 - 160
Carbamazepine	106		P	30 - 160
Clothianidin	105		P	30 - 160
Dinotefuran	101		P	30 - 160
Diuron	92.8		P	30 - 160
Fenuron	101		P	30 - 160
Fluridone	97.6		P	30 - 160
Hydrocodone	94.5		P	30 - 160
Ibuprofen	82.7		P	30 - 160
Imazapyr	127		P	30 - 160
Imidacloprid	94.9		P	30 - 160
Linuron	85.0		P	30 - 160
Mandestrobin	98.6		P	30 - 160
MCPP	103		P	30 - 160
Naproxen	74.3		P	30 - 160
Primidone	107		P	30 - 160
Pyraclostrobin	88.1		P	30 - 160
Silvex	72.6		P	30 - 160
Thiamethoxam	101		P	30 - 160
Tolfenpyrad	56.4		P	30 - 160
Triclopyr	96.1		P	30 - 160

Reference Method: SM 2320 B-2011

Batch ID: P411966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.0		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P412056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P411970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P412058

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.9		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P411792

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.7		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P411793

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P411777

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314952	Iron	110	99.8	P/P	70 - 130
2314952	Tin	91.2	106	P/P	70 - 130
2314952	Vanadium	100	97.6	P/P	70 - 130
2314952	Zinc	101	96.1	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P411777

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314952	Aluminum	105	100	P/P	70 - 130
2314952	Antimony	98.8	98.4	P/P	70 - 130
2314952	Arsenic	108	109	P/P	70 - 130
2314952	Beryllium	105	103	P/P	70 - 130
2314952	Cadmium	93.6	94.2	P/P	70 - 130
2314952	Chromium	100	99.5	P/P	70 - 130
2314952	Cobalt	110	110	P/P	70 - 130
2314952	Copper	101	101	P/P	70 - 130
2314952	Lead	102	102	P/P	70 - 130
2314952	Manganese	97.3	97.3	P/P	70 - 130
2314952	Molybdenum	109	109	P/P	70 - 130
2314952	Nickel	112	112	P/P	70 - 130
2314952	Selenium	104	99.9	P/P	70 - 130
2314952	Silver	89.8	90.2	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P411759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314310	Ammonia-N	98.4	98.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P411760

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314875	Ammonia-N	96.0	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P411694

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314637	Kjeldahl Nitrogen	98.0	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P412165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314853	Kjeldahl Nitrogen	94.8	91.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P411736

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411736

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314875	NO2NO3-N	99.0	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315012	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314876	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315014	Total-P	93.7	93.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P411697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314684	Aldrin	42.0	35.4	P/P	10 - 89.0
2314684	Alpha-BHC	83.7	85.5	P/P	71 - 105
2314684	Alpha-Chlordane	55.7	53.0	P/P	43 - 107
2314684	Beta-BHC	106	100	P/P	57 - 152
2314684	Beta-Cyfluthrin	53.4	54.9	P/P	29 - 186
2314684	Bifenthrin	41.7	38.4	P/P	19 - 119
2314684	Chlorothalonil	154	51.6	P/P	10 - 245
2314684	Cis-Nonachlor	51.6	51.2	P/P	36 - 110
2314684	Cypermethrin	59.9	59.2	P/P	24 - 169
2314684	Dacthal	82.4	83.7	P/P	62 - 115
2314684	DDD-p,p'	52.7	51.6	P/P	36 - 109
2314684	DDE-p,p'	58.0	54.2	P/P	30 - 114
2314684	DDT-p,p'	54.8	50.2	P/P	42 - 108
2314684	Delta-BHC	113	104	P/P	60 - 164
2314684	Deltamethrin	58.1	53.3	P/P	10 - 210
2314684	Dichlobenil	67.1	77.1	P/P	23 - 108
2314684	Dicofol	58.4	57.0	P/P	44 - 109
2314684	Dieldrin	61.1	60.5	P/P	37 - 119
2314684	Endosulfan I	67.9	63.9	P/P	52 - 105
2314684	Endosulfan II	66.7	66.0	P/P	35 - 127
2314684	Endosulfan Sulfate	71.8	80.2	P/P	39 - 130
2314684	Endrin	61.6	62.1	P/P	30 - 116
2314684	Endrin Aldehyde	73.6	78.2	P/P	20 - 110
2314684	Endrin Ketone	88.9	69.3	P/P	48 - 134
2314684	Esfenvalerate	54.5	52.6	P/P	10 - 199
2314684	Ethalfuralin	57.0	52.4	P/P	48 - 95.0
2314684	Fenpropathrin	51.9	53.2	P/P	37 - 121
2314684	Gamma-BHC	89.8	90.8	P/P	61 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P411697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314684	Gamma-Chlordane	55.4	54.2	P/P	39 - 105
2314684	Heptachlor	49.3	45.8	P/P	38 - 96.0
2314684	Heptachlor Epoxide	68.7	66.9	P/P	42 - 114
2314684	Hexachlorobenzene	59.2	56.2	P/P	39 - 93.0
2314684	Kepone	59.3	70.2	P/P	10 - 215
2314684	Lambda-Cyhalothrin	46.9	47.1	P/P	10 - 204
2314684	Methoprene	38.0	34.5	P/P	17 - 108
2314684	Methoxychlor	75.8	73.5	P/P	56 - 115
2314684	MGK-264	67.6	72.3	P/P	35 - 120
2314684	Mirex	41.3	37.2	P/P	10 - 178
2314684	Oxychlordane	56.3	50.1	P/P	47 - 91.0
2314684	Permethrin	58.7	54.0	P/P	27 - 170
2314684	Phenothrin	41.1	32.8	P/P	10 - 133
2314684	Piperonyl Butoxide	89.3	93.2	P/P	23 - 150
2314684	Prallethrin	54.7	56.7	P/P	21 - 113
2314684	Tau-Fluvalinate	51.6	51.6	P/P	16 - 158
2314684	Tetramethrin	69.9	76.4	P/P	22 - 132
2314684	Trans-Nonachlor	59.2	55.4	P/P	43 - 102
2314684	Triclosan Methyl	68.2	61.4	P/P	49 - 109
2314684	Trifluralin	56.3	52.0	P/P	48 - 93.0
2314926	PCB-1016	78.9	77.9	P/P	46 - 110
2314926	PCB-1260	72.5	80.3	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P411974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315461	Acetochlor	106	109	P/P	65 - 124
2315461	Alachlor	94.9	94.6	P/P	61 - 121
2315461	Ametryn	125	110	P/P	52 - 216
2315461	Atrazine	105	105	P/P	68 - 133
2315461	Atrazine Desethyl	68.2	73.3	P/P	15 - 160
2315461	Avobenzone	95.4	87.6	P/P	59 - 206
2315461	Azinphos Methyl	86.5	85.4	P/P	40 - 292
2315461	Azoxystrobin	117	121	P/P	12 - 242
2315461	Bromacil	123	112	P/P	54 - 167
2315461	Butylate	39.9	34.7	P/P	14 - 94.0
2315461	Carbophenothion	127	109	F/P	49 - 122
2315461	Carfentrazone Ethyl	131	132	P/P	53 - 138
2315461	Chlorfenapyr	87.1	84.0	P/P	50 - 150
2315461	Chlorpyrifos Ethyl	103	94.2	P/P	52 - 122
2315461	Chlorpyrifos Methyl	97.1	91.4	P/P	66 - 117
2315461	Coumaphos	201	184	P/P	50 - 220
2315461	Cyanazine	176	146	P/P	43 - 245
2315461	Cyprodinil	132	131	P/P	50 - 150
2315461	Demeton	89.2	79.9	P/P	43 - 188
2315461	Diazinon	108	106	P/P	69 - 131
2315461	Difenoconazole	100	109	P/P	34 - 231
2315461	Dimethenamid	85.5	85.3	P/P	55 - 118
2315461	Dimethomorph	112	115	P/P	50 - 150
2315461	Disulfoton	94.5	87.2	P/P	38 - 141
2315461	Dithiopyr	98.3	105	P/P	42 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P411974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315461	EPTC	36.4	32.4	P/P	18 - 85.0
2315461	Ethion	95.4	88.8	P/P	10 - 131
2315461	Ethoprop	96.1	93.0	P/P	65 - 129
2315461	Etridiazole	59.3	51.8	P/P	50 - 150
2315461	Fenamiphos	125	113	P/P	31 - 137
2315461	Fenbuconazole	142	156	P/P	57 - 160
2315461	Fipronil	116	116	P/P	62 - 132
2315461	Fipronil Desulfinyl	98.7	96.3	P/P	57 - 131
2315461	Fipronil Sulfide	99.4	89.2	P/P	15 - 138
2315461	Fipronil Sulfone	121	110	P/P	21 - 134
2315461	Fluazifop-P-butyl	98.3	93.4	P/P	54 - 133
2315461	Fludioxonil	121	117	P/P	58 - 127
2315461	Flumioxazin	195	117	P/P	33 - 300
2315461	Flutolanil	102	95.8	P/P	42 - 130
2315461	Fluxapyroxad	59.7	73.8	P/P	23 - 141
2315461	Fonofos	97.4	92.5	P/P	58 - 119
2315461	Hexazinone	104	104	P/P	68 - 172
2315461	Imazalil	79.3	79.9	P/P	48 - 283
2315461	Iprodione	82.3	96.3	P/P	38 - 140
2315461	Loratadine	79.0	91.4	P/P	50 - 150
2315461	Malathion	118	111	P/P	40 - 137
2315461	Metalaxyl	88.8	93.2	P/P	21 - 129
2315461	Metolachlor	104	109	P/P	55 - 122
2315461	Metribuzin	101	82.5	P/P	38 - 187
2315461	Mevinphos	81.9	81.4	P/P	54 - 134
2315461	Molinate	58.7	56.4	P/P	41 - 97.0
2315461	Myclobutanil	115	118	P/P	56 - 125
2315461	Naled	89.0	75.8	P/P	10 - 108
2315461	Napropamide	91.5	88.3	P/P	50 - 150
2315461	Norflurazon	77.9	82.5	P/P	32 - 122
2315461	Oxybenzone	101	91.5	P/P	59 - 147
2315461	Oxyfluorfen	124	119	P/P	61 - 153
2315461	Parathion Ethyl	96.8	104	P/P	59 - 130
2315461	Parathion Methyl	107	113	P/P	65 - 155
2315461	Pendimethalin	99.0	102	P/P	49 - 138
2315461	Phenytol	136	145	P/P	50 - 200
2315461	Phorate	101	91.3	P/P	54 - 161
2315461	Prodiamine	74.6	63.9	P/P	33 - 161
2315461	Prometon	136	125	P/P	48 - 140
2315461	Prometryn	126	118	P/P	55 - 134
2315461	Pronamide	118	112	P/P	66 - 137
2315461	Propanil	90.3	92.1	P/P	50 - 150
2315461	Propargite	166	156	P/P	50 - 200
2315461	Propiconazole	139	140	P/P	36 - 150
2315461	Pyraflufen Ethyl	148	125	P/P	50 - 150
2315461	Pyridaben	101	103	P/P	50 - 200
2315461	Pyriproxyfen	90.1	104	P/P	10 - 165
2315461	Simazine	101	100	P/P	57 - 145
2315461	Stirophos	97.3	82.9	P/P	50 - 150
2315461	Sulfentrazone	75.2	83.6	P/P	34 - 140
2315461	Tebuconazole	44.8	82.7	P/P	10 - 127
2315461	Terbufos	120	112	P/P	59 - 138

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P411974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315461	Terbutylazine	99.3	97.2	P/P	68 - 119
2315461	Thiobencarb	97.4	99.7	P/P	50 - 150
2315461	Triadimefon	93.9	94.7	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P412360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315732	Caffeine	94.9		P	10 - 226
2315732	Octinoxate	64.7		P	25 - 150
2315732	Oxadiazon	57.0		P	40 - 119

Reference Method: EPA 8276
Batch ID: P411697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314926	Chlordane	86.8	82.5	P/P	55 - 128
2314926	Toxaphene	81.5	80.3	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P411656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314412	Acesulfame K	139	132	P/P	40 - 150
2314412	AMPA	108	103	P/P	40 - 150
2314412	Endothall	129	114	P/P	40 - 150
2314412	Glufosinate	114	101	P/P	40 - 150
2314412	Glyphosate	105	102	P/P	40 - 150
2314412	Sucralose	116	98.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P411658

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314408	3-Hydroxycarbofuran	93.1	104	P/P	30 - 160
2314408	Aldicarb	69.5	61.3	P/P	30 - 150
2314408	Aldicarb Sulfone	117	107	P/P	30 - 160
2314408	Aldicarb Sulfoxide	47.9	42.8	P/P	30 - 160
2314408	Carbaryl	72.1	68.6	P/P	30 - 160
2314408	Carbofuran	86.4	79.1	P/P	30 - 160
2314408	Methiocarb	77.8	74.8	P/P	30 - 160
2314408	Methomyl	98.9	91.1	P/P	30 - 160
2314408	Oxamyl	90.3	93.6	P/P	30 - 160
2314408	Propoxur	87.8	84.6	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P411659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314706	2,4-D	100	117	P/P	30 - 160
2314706	2,4,5-T	72.1	73.5	P/P	30 - 160
2314706	Acetaminophen	101	97.3	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P411659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314706	Acetamiprid	117	122	P/P	30 - 160
2314706	Afidopyropen	75.0	77.5	P/P	30 - 160
2314706	Benzovindiflupyr	92.7	94.5	P/P	30 - 160
2314706	Carbamazepine	86.1	99.4	P/P	30 - 160
2314706	Clothianidin	123	131	P/P	30 - 160
2314706	Dinotefuran	129	135	P/P	30 - 160
2314706	Diuron	78.3	86.4	P/P	30 - 160
2314706	Fenuron	82.8	88.8	P/P	30 - 160
2314706	Fluridone	81.5	99.0	P/P	30 - 160
2314706	Hydrocodone	97.2	98.1	P/P	30 - 160
2314706	Ibuprofen	53.1	70.0	P/P	30 - 160
2314706	Imidacloprid	171	189	F/F	30 - 160
2314706	Linuron	77.5	70.7	P/P	30 - 160
2314706	Mandestrobin	94.2	101	P/P	30 - 160
2314706	MCP	91.2	94.9	P/P	30 - 160
2314706	Naproxen	73.2	62.7	P/P	30 - 160
2314706	Primidone	106	112	P/P	30 - 160
2314706	Pyraclostrobin	79.9	83.3	P/P	30 - 160
2314706	Silvex	75.5	82.4	P/P	30 - 160
2314706	Thiamethoxam	152	164	P/F	30 - 160
2314706	Tolfenpyrad	54.5	51.6	P/P	30 - 160
2314706	Triclopyr	84.7	75.8	P/P	30 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P411970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315428	Fluoride	98.3	98.9	P/P	92 - 107

Reference Method: SM 4500-F- C-2011
Batch ID: P412058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315608	Fluoride	93.4	95.6	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P411792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315048	Organic Carbon	94.2	96.8	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P411793

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315032	Organic Carbon	87.4	89.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P411716

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315000	Turbidity	7.66	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P411777

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314952	Calcium	5.71	Spike	P	0 - 20
2314952	Iron	8.41	Spike	P	0 - 20
2314952	Magnesium	3.50	Spike	P	0 - 20
2314952	Strontium	2.25	Spike	P	0 - 20
2314952	Tin	14.8	Spike	P	0 - 20
2314952	Vanadium	2.50	Spike	P	0 - 20
2314952	Zinc	5.10	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P411777

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314952	Aluminum	3.58	Spike	P	0 - 20
2314952	Antimony	0.392	Spike	P	0 - 20
2314952	Arsenic	0.888	Spike	P	0 - 20
2314952	Beryllium	1.95	Spike	P	0 - 20
2314952	Cadmium	0.635	Spike	P	0 - 20
2314952	Chromium	0.521	Spike	P	0 - 20
2314952	Cobalt	0.122	Spike	P	0 - 20
2314952	Copper	0.233	Spike	P	0 - 20
2314952	Lead	0.453	Spike	P	0 - 20
2314952	Manganese	0.0141	Spike	P	0 - 20
2314952	Molybdenum	0.148	Spike	P	0 - 20
2314952	Nickel	0.200	Spike	P	0 - 20
2314952	Selenium	4.07	Spike	P	0 - 20
2314952	Silver	0.464	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P411759

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314310	Ammonia-N	0.188	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P411760

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314875	Ammonia-N	0.546	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411694

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314637	Kjeldahl Nitrogen	2.61	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314853	Kjeldahl Nitrogen	3.15	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314875	NO2NO3-N	2.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315012	NO2NO3-N	1.43	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314876	Total-P	0.840	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315014	Total-P	0.240	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P411697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314684	Aldrin	17.0	Spike	P	0 - 37
2314684	Alpha-BHC	2.19	Spike	P	0 - 16
2314684	Alpha-Chlordane	4.92	Spike	P	0 - 28
2314684	Beta-BHC	5.22	Spike	P	0 - 32
2314684	Beta-Cyfluthrin	2.89	Spike	P	0 - 41
2314684	Bifenthrin	8.29	Spike	P	0 - 36
2314684	Chlorothalonil	99.8	Spike	F	0 - 54
2314684	Cis-Nonachlor	0.729	Spike	P	0 - 33
2314684	Cypermethrin	1.08	Spike	P	0 - 38

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P411697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314684	Dacthal	1.63	Spike	P	0 - 23
2314684	DDD-p,p'	2.24	Spike	P	0 - 35
2314684	DDE-p,p'	6.70	Spike	P	0 - 27
2314684	DDT-p,p'	8.67	Spike	P	0 - 31
2314684	Delta-BHC	7.76	Spike	P	0 - 30
2314684	Deltamethrin	8.58	Spike	P	0 - 76
2314684	Dichlobenil	13.9	Spike	P	0 - 33
2314684	Dicofol	2.33	Spike	P	0 - 24
2314684	Dieldrin	1.04	Spike	P	0 - 35
2314684	Endosulfan I	6.14	Spike	P	0 - 25
2314684	Endosulfan II	1.10	Spike	P	0 - 31
2314684	Endosulfan Sulfate	11.0	Spike	P	0 - 38
2314684	Endrin	0.810	Spike	P	0 - 53
2314684	Endrin Aldehyde	6.16	Spike	P	0 - 81
2314684	Endrin Ketone	24.8	Spike	P	0 - 33
2314684	Esfenvalerate	3.46	Spike	P	0 - 46
2314684	Ethalfuralin	8.31	Spike	P	0 - 22
2314684	Fenpropathrin	2.43	Spike	P	0 - 29
2314684	Gamma-BHC	1.08	Spike	P	0 - 17
2314684	Gamma-Chlordane	2.10	Spike	P	0 - 28
2314684	Heptachlor	7.37	Spike	P	0 - 28
2314684	Heptachlor Epoxide	2.63	Spike	P	0 - 23
2314684	Hexachlorobenzene	5.24	Spike	P	0 - 22
2314684	Kepone	16.8	Spike	P	0 - 61
2314684	Lambda-Cyhalothrin	0.476	Spike	P	0 - 52
2314684	Methoprene	9.74	Spike	P	0 - 38
2314684	Methoxychlor	3.04	Spike	P	0 - 29
2314684	MGK-264	6.71	Spike	P	0 - 41
2314684	Mirex	10.4	Spike	P	0 - 39
2314684	Oxychlordane	11.7	Spike	P	0 - 33
2314684	Permethrin	8.38	Spike	P	0 - 39
2314684	Phenothrin	22.5	Spike	P	0 - 52
2314684	Piperonyl Butoxide	4.32	Spike	P	0 - 91
2314684	Prallethrin	3.65	Spike	P	0 - 34
2314684	Tau-Fluvalinate	0.0999	Spike	P	0 - 41
2314684	Tetramethrin	8.94	Spike	P	0 - 43
2314684	Trans-Nonachlor	6.54	Spike	P	0 - 31
2314684	Triclosan Methyl	10.6	Spike	P	0 - 24
2314684	Trifluralin	8.06	Spike	P	0 - 23
2314926	PCB-1016	1.31	Spike	P	0 - 22
2314926	PCB-1260	10.1	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P411974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315461	Acetochlor	2.45	Spike	P	0 - 27
2315461	Alachlor	0.313	Spike	P	0 - 27
2315461	Ametryn	12.5	Spike	P	0 - 34
2315461	Atrazine	0.134	Spike	P	0 - 41

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P411974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315461	Atrazine Desethyl	7.12	Spike	P	0 - 38
2315461	Avobenzone	6.28	Spike	P	0 - 30
2315461	Azinphos Methyl	1.28	Spike	P	0 - 62
2315461	Azoxystrobin	3.21	Spike	P	0 - 32
2315461	Bromacil	9.26	Spike	P	0 - 30
2315461	Butylate	14.1	Spike	P	0 - 59
2315461	Carbophenothion	14.7	Spike	P	0 - 25
2315461	Carfentrazone Ethyl	0.804	Spike	P	0 - 26
2315461	Chlorfenapyr	3.63	Spike	P	0 - 30
2315461	Chlorpyrifos Ethyl	8.71	Spike	P	0 - 27
2315461	Chlorpyrifos Methyl	6.02	Spike	P	0 - 26
2315461	Coumaphos	9.08	Spike	P	0 - 30
2315461	Cyanazine	19.0	Spike	P	0 - 58
2315461	Cyprodinil	0.476	Spike	P	0 - 30
2315461	Demeton	11.1	Spike	P	0 - 25
2315461	Diazinon	1.44	Spike	P	0 - 29
2315461	Difenoconazole	8.49	Spike	P	0 - 25
2315461	Dimethenamid	0.246	Spike	P	0 - 30
2315461	Dimethomorph	2.29	Spike	P	0 - 30
2315461	Disulfoton	8.02	Spike	P	0 - 33
2315461	Dithiopyr	6.39	Spike	P	0 - 22
2315461	EPTC	11.5	Spike	P	0 - 38
2315461	Ethion	7.12	Spike	P	0 - 79
2315461	Ethoprop	3.26	Spike	P	0 - 23
2315461	Etridiazole	13.5	Spike	P	0 - 30
2315461	Fenamiphos	9.50	Spike	P	0 - 58
2315461	Fenbuconazole	9.17	Spike	P	0 - 37
2315461	Fipronil	0.000537	Spike	P	0 - 33
2315461	Fipronil Desulfinyl	2.41	Spike	P	0 - 26
2315461	Fipronil Sulfide	10.8	Spike	P	0 - 37
2315461	Fipronil Sulfone	9.42	Spike	P	0 - 50
2315461	Fluazifop-P-butyl	5.17	Spike	P	0 - 24
2315461	Fludioxonil	3.80	Spike	P	0 - 26
2315461	Flumioxazin	50.5	Spike	F	0 - 37
2315461	Flutolanil	6.01	Spike	P	0 - 26
2315461	Fluxapyroxad	19.6	Spike	P	0 - 34
2315461	Fonofos	5.22	Spike	P	0 - 27
2315461	Hexazinone	0.481	Spike	P	0 - 36
2315461	Imazalil	0.740	Spike	P	0 - 65
2315461	Iprodione	15.7	Spike	P	0 - 33
2315461	Loratadine	14.6	Spike	P	0 - 30
2315461	Malathion	6.17	Spike	P	0 - 44
2315461	Metalaxyl	4.86	Spike	P	0 - 38
2315461	Metolachlor	3.53	Spike	P	0 - 36
2315461	Metribuzin	20.4	Spike	P	0 - 63
2315461	Mevinphos	0.592	Spike	P	0 - 26
2315461	Molinate	4.11	Spike	P	0 - 40
2315461	Myclobutanil	2.19	Spike	P	0 - 21
2315461	Naled	16.1	Spike	P	0 - 26
2315461	Napropamide	3.59	Spike	P	0 - 30
2315461	Norflurazon	5.81	Spike	P	0 - 24

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P411974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315461	Oxybenzone	9.44	Spike	P	0 - 30
2315461	Oxyfluorfen	4.29	Spike	P	0 - 24
2315461	Parathion Ethyl	6.96	Spike	P	0 - 28
2315461	Parathion Methyl	5.23	Spike	P	0 - 27
2315461	Pendimethalin	3.15	Spike	P	0 - 31
2315461	Phenytoin	6.19	Spike	P	0 - 30
2315461	Phorate	10.5	Spike	P	0 - 27
2315461	Prodiamine	15.5	Spike	P	0 - 52
2315461	Prometon	8.76	Spike	P	0 - 31
2315461	Prometryn	5.92	Spike	P	0 - 28
2315461	Pronamide	5.16	Spike	P	0 - 26
2315461	Propanil	2.02	Spike	P	0 - 30
2315461	Propargite	6.14	Spike	P	0 - 30
2315461	Propiconazole	0.602	Spike	P	0 - 31
2315461	Pyraflufen Ethyl	16.9	Spike	P	0 - 30
2315461	Pyridaben	2.38	Spike	P	0 - 30
2315461	Pyriproxyfen	14.8	Spike	P	0 - 50
2315461	Simazine	0.252	Spike	P	0 - 29
2315461	Stirophos	14.9	Spike	P	0 - 30
2315461	Sulfentrazone	10.6	Spike	P	0 - 33
2315461	Tebuconazole	59.4	Spike	F	0 - 44
2315461	Terbufos	6.61	Spike	P	0 - 29
2315461	Terbuthylazine	2.06	Spike	P	0 - 27
2315461	Thiobencarb	2.31	Spike	P	0 - 30
2315461	Triadimefon	0.863	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P412360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Caffeine	5.23	LCS	P	0 - 27
LFB	Octinoxate	21.2	LCS	P	0 - 30
LFB	Oxadiazon	1.27	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P411697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314926	Chlordane	5.10	Spike	P	0 - 25
2314926	Toxaphene	1.47	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P411656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314412	Acesulfame K	4.90	Spike	P	0 - 30
2314412	AMPA	4.01	Spike	P	0 - 30
2314412	Endothall	12.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P411656

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314412	Glufosinate	11.5	Spike	P	0 - 30
2314412	Glyphosate	3.49	Spike	P	0 - 30
2314412	Sucralose	15.4	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P411658

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314408	3-Hydroxycarbofuran	11.3	Spike	P	0 - 30
2314408	Aldicarb	12.5	Spike	P	0 - 30
2314408	Aldicarb Sulfone	9.48	Spike	P	0 - 30
2314408	Aldicarb Sulfoxide	11.2	Spike	P	0 - 30
2314408	Carbaryl	4.91	Spike	P	0 - 30
2314408	Carbofuran	8.80	Spike	P	0 - 30
2314408	Methiocarb	3.93	Spike	P	0 - 30
2314408	Methomyl	8.12	Spike	P	0 - 30
2314408	Oxamyl	3.57	Spike	P	0 - 30
2314408	Propoxur	3.68	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P411659

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314706	2,4-D	12.5	Spike	P	0 - 30
2314706	2,4,5-T	1.84	Spike	P	0 - 30
2314706	Acetaminophen	4.00	Spike	P	0 - 30
2314706	Acetamiprid	4.02	Spike	P	0 - 30
2314706	Afidopyropen	3.28	Spike	P	0 - 30
2314706	Bentazon	3.25	Spike	P	0 - 30
2314706	Benzovindiflupyr	1.90	Spike	P	0 - 30
2314706	Carbamazepine	8.53	Spike	P	0 - 30
2314706	Clothianidin	6.29	Spike	P	0 - 30
2314706	Dinotefuran	4.51	Spike	P	0 - 30
2314706	Diuron	9.44	Spike	P	0 - 30
2314706	Fenuron	6.94	Spike	P	0 - 30
2314706	Fluridone	13.5	Spike	P	0 - 30
2314706	Hydrocodone	0.908	Spike	P	0 - 30
2314706	Ibuprofen	27.6	Spike	P	0 - 30
2314706	Imazapyr	14.4	Spike	P	0 - 30
2314706	Imidacloprid	8.86	Spike	P	0 - 30
2314706	Linuron	9.19	Spike	P	0 - 30
2314706	Mandestrobin	6.58	Spike	P	0 - 30
2314706	MCPP	3.61	Spike	P	0 - 30
2314706	Naproxen	15.4	Spike	P	0 - 30
2314706	Primidone	4.85	Spike	P	0 - 30
2314706	Pyraclostrobin	4.13	Spike	P	0 - 30
2314706	Silvex	8.80	Spike	P	0 - 30
2314706	Thiamethoxam	7.61	Spike	P	0 - 30
2314706	Tolfenpyrad	5.44	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P411659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314706	Triclopyr	11.2	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P411966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315428	Total Alkalinity	1.92	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P412056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315608	Total Alkalinity	1.38	Sample	P	0 - 5.2

Reference Method: SM 2540 D-2011
Batch ID: P411903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314905	TSS	23.8	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P411970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315428	Fluoride	0.490	Spike	P	0 - 2.1

Reference Method: SM 4500-F- C-2011
Batch ID: P412058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315608	Fluoride	1.50	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P411792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315048	Organic Carbon	1.48	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P411793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315032	Organic Carbon	1.62	Spike	P	0 - 20

Quality Assurance Report Precision

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2314924
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	54.4	P	30 - 160

Lab Sample ID: 2314925
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.7	P	30 - 160
EPA 8321B	Diuron-d6	59.1	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	82.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	83.1	P	30 - 160
EPA 8321B	Primidone-d5	93.6	P	30 - 160
EPA 8321B	Sucralose-d6	133	P	30 - 160

Lab Sample ID: 2314926
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	86.6	P	38 - 115
EPA 8270E	Decachlorobiphenyl	74.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	58.0	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	60.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	66.0	P	30 - 97.0
EPA 8276	PCNB	67.1	P	45 - 119

Lab Sample ID: 2314927
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	46.4	P	20 - 200
EPA 8270E	Caffeine-d9	86.7	P	20 - 200
EPA 8270E	Simazine-d10	97.6	P	71 - 140
EPA 8270E	Simazine-d10	94.9	P	71 - 140
EPA 8270E	Terbufos-d10	106	P	62 - 131
EPA 8270E	Terbufos-d10	74.0	P	62 - 131
EPA 8270E	Terphenyl-d14	88.7	P	55 - 108
EPA 8270E	Terphenyl-d14	143	F	55 - 108

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A111213

Included Lab Sample IDs: 2314905, 2314907

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111226

Included Lab Sample IDs: 2314906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A111227

Included Lab Sample IDs: 2314925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	93.7	95.1	P/P	60 - 160
Endothall	74.4	102	P/P	60 - 160
Sucralose	101	108	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A111231

Included Lab Sample IDs: 2314925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	119	P/P	60 - 160
Glufosinate	93.3	105	P/P	60 - 160
Glyphosate	118	120	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111234

Included Lab Sample IDs: 2314906, 2314908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.3	P/P	90 - 110
Ammonia-N	99.6	98.2	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A111243

Included Lab Sample IDs: 2314906, 2314908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.5	94.2	P/P	90 - 110
Organic Carbon	96.4	95.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A111248

Included Lab Sample IDs: 2314924

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	102	P/P	60 - 150
Aldicarb	87.6	78.3	P/P	60 - 150
Aldicarb Sulfone	107	109	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A111248
Included Lab Sample IDs: 2314924

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfoxide	98.0	101	P/P	50 - 150
Carbaryl	100	95.7	P/P	60 - 150
Carbofuran	109	108	P/P	50 - 150
Methiocarb	89.0	104	P/P	50 - 150
Methomyl	108	108	P/P	50 - 150
Oxamyl	102	106	P/P	50 - 150
Propoxur	115	115	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A111259
Included Lab Sample IDs: 2314908

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A111260
Included Lab Sample IDs: 2314952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	103	P/P	90 - 110
Antimony	98.5	100	P/P	90 - 110
Arsenic	98.5	99.5	P/P	90 - 110
Beryllium	97.9	98.8	P/P	90 - 110
Cadmium	98.3	99.4	P/P	90 - 110
Chromium	97.4	97.7	P/P	90 - 110
Cobalt	102	101	P/P	90 - 110
Copper	102	102	P/P	90 - 110
Lead	95.6	94.5	P/P	90 - 110
Manganese	99.2	98.9	P/P	90 - 110
Molybdenum	96.9	96.8	P/P	90 - 110
Nickel	101	101	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Silver	101	101	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A111271
Included Lab Sample IDs: 2314926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.7		P	80 - 120
Toxaphene	97.3		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A111275
Included Lab Sample IDs: 2314952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.4	99.3	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Strontium	96.0	96.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A111275

Included Lab Sample IDs: 2314952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	96.7	96.9	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A111290

Included Lab Sample IDs: 2314926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.5		P	80 - 120
Alpha-BHC	96.2		P	80 - 120
Alpha-Chlordane	94.3		P	80 - 120
Beta-BHC	98.8		P	80 - 120
Beta-Cyfluthrin	90.5		P	80 - 120
Bifenthrin	87.0		P	80 - 120
Chlorothalonil	101		P	80 - 120
Cis-Nonachlor	107		P	80 - 120
Cypermethrin	94.3		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	93.2		P	80 - 120
DDE-p,p'	97.9		P	80 - 120
DDT-p,p'	99.0		P	80 - 120
Delta-BHC	97.8		P	80 - 120
Deltamethrin	86.7		P	80 - 120
Dichlobenil	90.8		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	97.1		P	80 - 120
Endosulfan I	99.3		P	80 - 120
Endosulfan II	93.2		P	80 - 120
Endosulfan Sulfate	90.6		P	80 - 120
Endrin	97.1		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	110		P	80 - 120
Esfenvalerate	84.2		P	80 - 120
Ethalfuralin	96.4		P	80 - 120
Fenpropathrin	89.1		P	80 - 120
Gamma-BHC	93.3		P	80 - 120
Gamma-Chlordane	98.4		P	80 - 120
Heptachlor	96.9		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	96.0		P	80 - 120
Lambda-Cyhalothrin	87.8		P	80 - 120
Methoprene	88.6		P	80 - 120
Methoxychlor	97.3		P	80 - 120
MGK-264	88.1		P	80 - 120
Mirex	91.7		P	80 - 120
Oxychlordane	92.7		P	80 - 120
Permethrin	88.4		P	80 - 120
Phenothrin	86.7		P	80 - 120
Piperonyl Butoxide	86.1		P	80 - 120
Prallethrin	83.1		P	80 - 120
Tau-Fluvalinate	90.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A111290
Included Lab Sample IDs: 2314926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tetramethrin	84.4		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	94.6		P	80 - 120

Reference Method: EPA 8270E
Run ID: A111299
Included Lab Sample IDs: 2314926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	108		P	80 - 120
PCB-1260	99.6		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A111305
Included Lab Sample IDs: 2314905

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.7	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A111305
Included Lab Sample IDs: 2314905

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A111336
Included Lab Sample IDs: 2314906

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A111344
Included Lab Sample IDs: 2314908

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

Reference Method: EPA 8321B
Run ID: A111346
Included Lab Sample IDs: 2314925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	109	P/P	50 - 150
2,4,5-T	86.1	87.3	P/P	50 - 150
Acetaminophen	91.0	91.2	P/P	60 - 160
Acetamiprid	113	112	P/P	50 - 150
Afidopyropen	101	99.0	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A111346
Included Lab Sample IDs: 2314925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	103	95.6	P/P	50 - 160
Benzovindiflupyr	107	91.9	P/P	50 - 150
Carbamazepine	104	101	P/P	60 - 150
Clothianidin	119	110	P/P	60 - 150
Dinotefuran	105	103	P/P	50 - 150
Diuron	110	98.7	P/P	60 - 160
Fenuron	99.5	99.7	P/P	60 - 150
Fluridone	99.1	100	P/P	60 - 160
Hydrocodone	99.0	101	P/P	60 - 150
Ibuprofen	133	95.4	P/P	50 - 160
Imazapyr	139	124	P/P	50 - 150
Imidacloprid	93.8	96.5	P/P	60 - 150
Linuron	81.3	92.1	P/P	60 - 150
Mandestrobin	109	112	P/P	50 - 150
MCPP	93.7	92.1	P/P	50 - 150
Naproxen	124	95.0	P/P	50 - 160
Primidone	90.5	104	P/P	60 - 150
Pyraclostrobin	105	94.8	P/P	60 - 150
Silvex	86.1	91.8	P/P	50 - 150
Thiamethoxam	105	105	P/P	50 - 150
Tolfenpyrad	99.7	90.3	P/P	60 - 150
Triclopyr	103	96.5	P/P	50 - 150

Reference Method: SM 2320 B-2011
Run ID: A111357
Included Lab Sample IDs: 2314907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.8	95.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A111357
Included Lab Sample IDs: 2314907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	98.0	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A111387
Included Lab Sample IDs: 2314927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	102		P	80 - 120
Oxybenzone	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A111414
Included Lab Sample IDs: 2314927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A111414
Included Lab Sample IDs: 2314927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alachlor	102		P	80 - 120
Ametryn	99.1		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	106		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	98.6		P	80 - 120
Carbophenothion	99.0		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	95.9		P	80 - 120
Chlorpyrifos Ethyl	97.7		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	103		P	80 - 120
Demeton	99.1		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	119		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	100		P	80 - 120
Ethion	99.3		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	107		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	110		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	113		P	80 - 120
Flumioxazin	89.3		P	80 - 120
Flutolanil	108		P	80 - 120
Fluxapyroxad	114		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	104		P	80 - 120
Loratadine	103		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	89.0		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	98.6		P	80 - 120
Myclobutanil	107		P	80 - 120
Naled	103		P	80 - 120
Napropamide	104		P	80 - 120
Norflurazon	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A111414
Included Lab Sample IDs: 2314927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxyfluorfen	97.1		P	80 - 120
Parathion Ethyl	98.5		P	80 - 120
Parathion Methyl	97.7		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	108		P	80 - 120
Phorate	105		P	80 - 120
Prodiamine	91.7		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	104		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	100		P	80 - 120
Sulfentrazone	106		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	100		P	80 - 120
Terbutylazine	107		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A111421
Included Lab Sample IDs: 2314927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	104		P	80 - 120
Iprodione	119		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	99.7		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A111437
Included Lab Sample IDs: 2314952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	103	105	P/P	90 - 110
Vanadium	99.9	100	P/P	90 - 110
Zinc	99.8	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A111453
Included Lab Sample IDs: 2314906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	108	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A111529
Included Lab Sample IDs: 2314927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	97.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A111532
Included Lab Sample IDs: 2314927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Caffeine	97.9		P	80 - 120
Oxadiazon	102		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	96.2					7.66	
EPA 200.7 Rev. 4.4	Calcium	103						5.71
	Iron	106		110	99.8			8.41
	Magnesium	103						3.50
	Strontium	101						2.25
	Tin	101		91.2	106			14.8
	Vanadium	92.9		100	97.6			2.50
	Zinc	98.7		101	96.1			5.10
EPA 200.8 Rev. 5.4	Aluminum	100		105	100			3.58
	Antimony	98.8		98.8	98.4			0.392
	Arsenic	96.9		108	109			0.888
	Beryllium	92.0		105	103			1.95
	Cadmium	97.2		93.6	94.2			0.635
	Chromium	96.6		100	99.5			0.521
	Cobalt	98.2		110	110			0.122
	Copper	96.5		101	101			0.233
	Lead	95.9		102	102			0.453
	Manganese	98.6		97.3	97.3			0.0141
	Molybdenum	96.3		109	109			0.148
	Nickel	97.3		112	112			0.200
	Selenium	96.5		104	99.9			4.07
	Silver	101		89.8	90.2			0.464
EPA 350.1 Rev. 2.0	Ammonia-N	99.8		98.4	98.2			0.188
	Ammonia-N	97.8		96.0	96.6			0.546
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		98.0	95.1			2.61
	Kjeldahl Nitrogen	102		94.8	91.6			3.15
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0		99.0	97.0			2.04
	NO2NO3-N	99.5		100	102			1.43
EPA 365.1 Rev. 2.0	Total-P	102		103	104			0.840
	Total-P	102		93.7	93.4			0.240
EPA 8270E	Acetochlor	106		106	109			2.45
	Alachlor	92.9		94.9	94.6			0.313
	Aldrin	44.5		42.0	35.4			17.0
	Alpha-BHC	89.0		83.7	85.5			2.19
	Alpha-Chlordane	61.4		55.7	53.0			4.92
	Ametryn	109		125	110			12.5
	Atrazine	91.2		105	105			0.134
	Atrazine Desethyl	66.0		68.2	73.3			7.12
	Avobenzone	142		95.4	87.6			6.28
	Azinphos Methyl	74.7		86.5	85.4			1.28
	Azoxystrobin	86.8		117	121			3.21
	Beta-BHC	99.3		106	100			5.22
	Beta-Cyfluthrin	58.9		53.4	54.9			2.89
	Bifenthrin	42.9		41.7	38.4			8.29
	Bromacil	111		123	112			9.26
	Butylate	63.6		39.9	34.7			14.1
	Caffeine	81.0	76.9	94.9		5.23		
	Carbophenothion	111		127	109			14.7
	Carfentrazone Ethyl	126		131	132			0.804
	Chlorfenapyr	83.6		87.1	84.0			3.63
	Chlorothalonil	154		154	51.6			99.8
	Chlorpyrifos Ethyl	93.9		103	94.2			8.71
	Chlorpyrifos Methyl	90.6		97.1	91.4			6.02
	Cis-Nonachlor	61.1		51.6	51.2			0.729

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Coumaphos	178	201	184			9.08
	Cyanazine	181	176	146			19.0
	Cypermethrin	65.1	59.9	59.2			1.08
	Cyprodinil	123	132	131			0.476
	Dacthal	82.8	82.4	83.7			1.63
	DDD-p,p'	58.0	52.7	51.6			2.24
	DDE-p,p'	60.0	58.0	54.2			6.70
	DDT-p,p'	61.0	54.8	50.2			8.67
	Delta-BHC	104	113	104			7.76
	Deltamethrin	62.8	58.1	53.3			8.58
	Demeton	72.7	89.2	79.9			11.1
	Diazinon	104	108	106			1.44
	Dichlobenil	72.8	67.1	77.1			13.9
	Dicofol	65.3	58.4	57.0			2.33
	Dieldrin	65.9	61.1	60.5			1.04
	Difenoconazole	85.7	100	109			8.49
	Dimethenamid	85.7	85.5	85.3			0.246
	Dimethomorph	97.2	112	115			2.29
	Disulfoton	81.4	94.5	87.2			8.02
	Dithiopyr	98.2	98.3	105			6.39
	Endosulfan I	73.1	67.9	63.9			6.14
	Endosulfan II	73.0	66.7	66.0			1.10
	Endosulfan Sulfate	73.7	71.8	80.2			11.0
	Endrin	67.5	61.6	62.1			0.810
	Endrin Aldehyde	74.6	73.6	78.2			6.16
	Endrin Ketone	99.2	88.9	69.3			24.8
	EPTC	59.6	36.4	32.4			11.5
	Esfenvalerate	56.6	54.5	52.6			3.46
	Ethalfuralin	61.5	57.0	52.4			8.31
	Ethion	81.5	95.4	88.8			7.12
	Ethoprop	91.2	96.1	93.0			3.26
	Etridiazole	75.4	59.3	51.8			13.5
	Fenamiphos	106	125	113			9.50
	Fenbuconazole	149	142	156			9.17
	Fenpropathrin	60.1	51.9	53.2			2.43
	Fipronil	107	116	116			0.0005
	Fipronil Desulfinyl	103	98.7	96.3			2.41
	Fipronil Sulfide	87.1	99.4	89.2			10.8
	Fipronil Sulfone	105	121	110			9.42
	Fluazifop-P-butyl	93.5	98.3	93.4			5.17
	Fludioxonil	116	121	117			3.80
	Flumioxazin	135	195	117			50.5
	Flutolanil	94.3	102	95.8			6.01
	Fluxapyroxad	75.0	59.7	73.8			19.6
	Fonofos	84.3	97.4	92.5			5.22
	Gamma-BHC	90.2	89.8	90.8			1.08
	Gamma-Chlordane	59.8	55.4	54.2			2.10
	Heptachlor	54.9	49.3	45.8			7.37
	Heptachlor Epoxide	75.3	68.7	66.9			2.63
	Hexachlorobenzene	63.7	59.2	56.2			5.24
	Hexazinone	94.8	104	104			0.481
	Imazalil	65.6	79.3	79.9			0.740
	Iprodione	88.9	82.3	96.3			15.7
	Kepone	67.5	59.3	70.2			16.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Lambda-Cyhalothrin	49.2		46.9	47.1			0.476
	Loratadine	62.6		79.0	91.4			14.6
	Malathion	108		118	111			6.17
	Metalaxyl	89.2		88.8	93.2			4.86
	Methoprene	47.1		38.0	34.5			9.74
	Methoxychlor	80.5		75.8	73.5			3.04
	Metolachlor	100		104	109			3.53
	Metribuzin	85.0		101	82.5			20.4
	Mevinphos	81.1		81.9	81.4			0.592
	MGK-264	66.4		67.6	72.3			6.71
	Mirex	43.4		41.3	37.2			10.4
	Molinate	72.2		58.7	56.4			4.11
	Myclobutanil	110		115	118			2.19
	Naled	86.8		89.0	75.8			16.1
	Napropamide	87.4		91.5	88.3			3.59
	Norflurazon	61.4		77.9	82.5			5.81
	Octinoxate	124	101	64.7		21.2		
	Oxadiazon	63.5	64.3	57.0		1.27		
	Oxybenzone	88.8		101	91.5			9.44
	Oxychlordane	60.9		56.3	50.1			11.7
	Oxyfluorfen	113		124	119			4.29
	Parathion Ethyl	92.6		96.8	104			6.96
	Parathion Methyl	101		107	113			5.23
	PCB-1016	60.7		78.9	77.9			1.31
	PCB-1260	65.7		72.5	80.3			10.1
	Pendimethalin	80.2		99.0	102			3.15
	Permethrin	61.4		58.7	54.0			8.38
	Phenothrin	41.9		41.1	32.8			22.5
	Phenytoin	133		136	145			6.19
	Phorate	91.1		101	91.3			10.5
	Piperonyl Butoxide	83.2		89.3	93.2			4.32
	Prallethrin	56.3		54.7	56.7			3.65
	Prodiamine	130		74.6	63.9			15.5
	Prometon	120		136	125			8.76
	Prometryn	113		126	118			5.92
	Pronamide	101		118	112			5.16
	Propanil	92.8		90.3	92.1			2.02
	Propargite	159		166	156			6.14
	Propiconazole	67.8		139	140			0.602
	Pyraflufen Ethyl	141		148	125			16.9
	Pyridaben	205		101	103			2.38
	Pyriproxyfen	90.6		90.1	104			14.8
	Simazine	93.9		101	100			0.252
	Stirophos	89.6		97.3	82.9			14.9
	Sulfentrazone	98.7		75.2	83.6			10.6
	Tau-Fluvalinate	52.5		51.6	51.6			0.0999
	Tebuconazole	45.9		44.8	82.7			59.4
	Terbufos	108		120	112			6.61
	Terbutylazine	89.4		99.3	97.2			2.06
	Tetramethrin	68.6		69.9	76.4			8.94
	Thiobencarb	95.5		97.4	99.7			2.31
	Trans-Nonachlor	61.8		59.2	55.4			6.54
	Triadimefon	87.7		93.9	94.7			0.863
	Triclosan Methyl	72.0		68.2	61.4			10.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Trifluralin	61.1	56.3	52.0			8.06
EPA 8276	Chlordane	62.1	86.8	82.5			5.10
	Toxaphene	60.3	81.5	80.3			1.47
	2,4-D	128	100	117			12.5
EPA 8321B	2,4,5-T	85.1	72.1	73.5			1.84
	3-Hydroxycarbofuran	101	93.1	104			11.3
	Acesulfame K	109	139	132			4.90
	Acetaminophen	86.3	101	97.3			4.00
	Acetamiprid	106	117	122			4.02
	Afidopyropen	84.1	75.0	77.5			3.28
	Aldicarb	62.9	69.5	61.3			12.5
	Aldicarb Sulfone	98.3	117	107			9.48
	Aldicarb Sulfoxide	108	47.9	42.8			11.2
	AMPA	111	108	103			4.01
	Bentazon	39.6					3.25
	Benzovindiflupyr	105	92.7	94.5			1.90
	Carbamazepine	106	86.1	99.4			8.53
	Carbaryl	91.4	72.1	68.6			4.91
	Carbofuran	99.6	86.4	79.1			8.80
	Clothianidin	105	123	131			6.29
	Dinotefuran	101	129	135			4.51
	Diuron	92.8	78.3	86.4			9.44
	Endothall	80.1	129	114			12.1
	Fenuron	101	82.8	88.8			6.94
	Fluridone	97.6	81.5	99.0			13.5
	Glufosinate	137	114	101			11.5
	Glyphosate	129	105	102			3.49
	Hydrocodone	94.5	97.2	98.1			0.908
	Ibuprofen	82.7	53.1	70.0			27.6
	Imazapyr	127					14.4
	Imidacloprid	94.9	171	189			8.86
	Linuron	85.0	77.5	70.7			9.19
	Mandestrobin	98.6	94.2	101			6.58
	MCPP	103	91.2	94.9			3.61
	Methiocarb	82.8	77.8	74.8			3.93
	Methomyl	102	98.9	91.1			8.12
	Naproxen	74.3	73.2	62.7			15.4
	Oxamyl	98.5	90.3	93.6			3.57
	Primidone	107	106	112			4.85
	Propoxur	103	87.8	84.6			3.68
	Pyraclostrobin	88.1	79.9	83.3			4.13
	Silvex	72.6	75.5	82.4			8.80
	Sucralose	111	116	98.4			15.4
	Thiamethoxam	101	152	164			7.61
	Tolfenpyrad	56.4	54.5	51.6			5.44
	Triclopyr	96.1	84.7	75.8			11.2
SM 2320 B-2011	Total Alkalinity	98.0				1.92	
	Total Alkalinity	98.1				1.38	
SM 2540 D-2011	TSS					23.8	
SM 4500-F- C-2011	Fluoride	101	98.3	98.9			0.490
	Fluoride	96.9	93.4	95.6			1.50
SM 5310 B-2011	Organic Carbon	93.7	94.2	96.8			1.48
	Organic Carbon	94.3	87.4	89.2			1.62

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2314905, 2314907
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2314952
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2314952
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2314906, 2314908
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2314906, 2314908
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2314906, 2314908
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2314906, 2314908
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2314927
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2314926
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2314927
EPA 8270E	PCBs in water matrices by GC/MS/MS	2314926
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2314926
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2314924
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2314925
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2314905, 2314907
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2314905, 2314907
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2314905, 2314907
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2314906, 2314908

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	03/29/2022			03/29/2022 14:21	Anna M. Plaviak	2314905
	03/29/2022			03/29/2022 14:22	Anna M. Plaviak	2314907
EPA 200.7 Rev. 4.4	03/29/2022	03/31/2022 10:10	Megan Whitefoot	04/01/2022 16:15	Josef B Mick	2314952
	03/29/2022	03/31/2022 10:10	Megan Whitefoot	04/01/2022 16:47	Josef B Mick	2314952
	03/29/2022	03/31/2022 10:10	Megan Whitefoot	04/13/2022 01:24	Josef B Mick	2314952
EPA 200.8 Rev. 5.4	03/29/2022	03/31/2022 10:10	Megan Whitefoot	03/31/2022 16:43	Alexander Thompson	2314952
	03/29/2022	03/31/2022 10:10	Megan Whitefoot	03/31/2022 18:29	Alexander Thompson	2314952
EPA 350.1 Rev. 2.0	03/29/2022			03/30/2022 11:09	Ping Hua	2314908
	03/29/2022			03/30/2022 11:42	Ping Hua	2314906
EPA 351.2 Rev. 2.0	03/29/2022	03/31/2022 11:24	Samantha L Bates	04/07/2022 12:24	Samantha L Bates	2314908
	03/29/2022	04/12/2022 17:06	Samantha L Bates	04/13/2022 11:25	Alexandra J Mattheus	2314906
EPA 353.2 Rev. 2.0	03/29/2022			03/30/2022 09:38	Beverly Y. Sanders	2314906
	03/29/2022			03/31/2022 16:51	Nathaniel J Jones	2314908
EPA 365.1 Rev. 2.0	03/29/2022	04/05/2022 17:35	Simonne.V. Calhoun	04/06/2022 11:22	Sarah A Nixon	2314906
	03/29/2022	04/05/2022 17:35	Simonne.V. Calhoun	04/06/2022 15:12	James L Waggeberby	2314908
EPA 8270E	03/29/2022	03/30/2022 08:00	Fe-Val Siddell	04/04/2022 21:27	Vandana T. Nagar	2314926
	03/29/2022	03/30/2022 08:00	Fe-Val Siddell	04/04/2022 21:35	Julie Wi	2314926
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/07/2022 17:56	Michael Poppell	2314927
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/07/2022 18:03	Lipi Saha	2314927
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/09/2022 18:39	Michael Poppell	2314927
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/09/2022 19:05	Michael Poppell	2314927
	03/29/2022	04/13/2022 08:30	Rasheda Ghaffari	04/15/2022 18:02	Michael Poppell	2314927
	03/29/2022	04/13/2022 08:30	Rasheda Ghaffari	04/15/2022 18:43	Lipi Saha	2314927
	03/29/2022	03/30/2022 08:00	Fe-Val Siddell	04/01/2022 04:44	Arthur Maknenko	2314926
EPA 8276 EPA 8321B	03/29/2022	03/29/2022 14:00	Hoor Shaik	03/31/2022 06:28	Juyoung Kim	2314924
	03/29/2022	03/29/2022 14:00	Hoor Shaik	04/01/2022 07:18	Juyoung Kim	2314925
	03/29/2022	03/29/2022 14:00	Manjita Shrestha	03/29/2022 18:46	Manjita Shrestha	2314925
	03/29/2022	03/29/2022 14:00	Manjita Shrestha	03/30/2022 06:19	Manjita Shrestha	2314925
SM 2320 B-2011	03/29/2022			04/02/2022 05:29	Dale L. Simmons	2314905
	03/29/2022			04/06/2022 19:25	Dale L. Simmons	2314907
SM 2540 D-2011	03/29/2022			03/31/2022 15:30	Blanca Fach	2314907
	03/29/2022			03/31/2022 16:15	Simonne.V. Calhoun	2314905
SM 4500-F- C-2011	03/29/2022			04/02/2022 05:29	Dale L. Simmons	2314905
	03/29/2022			04/06/2022 16:43	Dale L. Simmons	2314907
SM 5310 B-2011	03/29/2022			03/30/2022 23:52	Khloe J Berg	2314906
	03/29/2022			03/31/2022 05:28	Khloe J Berg	2314908