

Chemical Analysis Report

NE-DIST-2022-01-28-01

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-2022-01-24-11**

Customer: **NE-DIST**

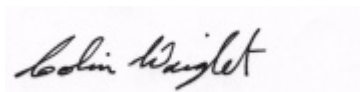
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 23-FEB-2022 13:45

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: Moultrie CR @ US 1

Collection Date/Time: 01/27/2022 09:45

Field ID: 27010055

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302352	SM 2320 B-2011	Total Alkalinity	117		mg CaCO3/L	P409434	
	SM 2540 D-2011	TSS	12		mg/L	P409667	
	SM 4500 F-C-2011	Fluoride	1.0		mg F/L	P409437	
2302353	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P409350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.44		mg N/L	P409238	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.028		mg N/L	P409318	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P409182	
	SM 5310 B-2011	Organic Carbon	5.1		mg C/L	P410104	
2302354	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.028		mg P/L	P409158	
2302379	EPA 200.7 Rev. 4.4	Calcium	359		mg/L	P409246	
		Iron	120	U	ug/L	P409246	
		Magnesium	1.15E+03		mg/L	P409246	
		Strontium	6.54E+03		ug/L	P409246	
		Tin	150	U	ug/L	P409246	
		Vanadium	8.0	U	ug/L	P409246	
		Zinc	20	U	ug/L	P409246	
	EPA 200.8 Rev. 5.4	Aluminum	132		ug/L	P409246	
		Antimony	0.20	I	ug/L	P409246	
		Arsenic	2.10		ug/L	P409246	
		Beryllium	0.040	U	ug/L	P409246	
		Cadmium	0.080	U	ug/L	P409246	
		Chromium	1.6	U	ug/L	P409246	
		Cobalt	0.085	I	ug/L	P409246	
		Copper	1.6	U	ug/L	P409246	
		Lead	2.0	U	ug/L	P409246	
		Manganese	8.5		ug/L	P409246	
		Molybdenum	10.2		ug/L	P409246	
		Nickel	2.0	U	ug/L	P409246	
		Selenium	0.80	U	ug/L	P409246	
		Silver	0.040	U	ug/L	P409246	

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.

Sample Location: Moses Creek at Preserve Dock

Collection Date/Time: 01/27/2022 10:25

Field ID: G5NE0004

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302349	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P409164	
	SM 2320 B-2011	Total Alkalinity	117		mg CaCO3/L	P409434	
	SM 2540 D-2011	TSS	13		mg/L	P409667	
	SM 4500 F-C-2011	Fluoride	0.86		mg F/L	P409437	
2302350	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P409350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.49		mg N/L	P409238	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P409379	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P409182	
	SM 5310 B-2011	Organic Carbon	7.0		mg C/L	P410104	
2302351	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.026		mg P/L	P409158	

Ref. Method and Comment:

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

Sample Location: Moses CR at US 1

Collection Date/Time: 01/27/2022 09:10

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302375	EPA 8321B	Aldicarb	0.020	U	ug/L	P409047	
		Aldicarb Sulfone	0.0020	U	ug/L	P409047	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409047	
		Carbaryl	0.0020	U	ug/L	P409047	
		Carbofuran	0.0020	U	ug/L	P409047	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409047	
		Methiocarb	0.0020	U	ug/L	P409047	
		Methomyl	0.0020	U	ug/L	P409047	
		Oxamyl	0.0020	U	ug/L	P409047	
		Propoxur	0.0020	U	ug/L	P409047	
2302376		2,4-D	0.090		ug/L	P409048	
		Acesulfame K	0.11	I	ug/L	P409131	
		2,4,5-T	0.0040	U	ug/L	P409048	
		AMPA	0.40	I	ug/L	P409131	
		Acetaminophen	0.0080	U	ug/L	P409048	
		Acetamiprid	0.0020	U	ug/L	P409048	
		Endothall	0.25	U	ug/L	P409131	MS
		Glufosinate	0.10	U	ug/L	P409131	
		Glyphosate	0.10	U	ug/L	P409131	
		Afidopyropen	0.0020	U	ug/L	P409048	
		Bentazon	0.037		ug/L	P409048	
		Sucralose	0.033	I	ug/L	P409131	
		Benzovindiflupyr	0.0020	U	ug/L	P409048	
		Carbamazepine	8.0E-04	U	ug/L	P409048	
		Clothianidin	0.0020	U	ug/L	P409048	
		Dinotefuran	0.0020	U	ug/L	P409048	
		Diuron	0.0020	U	ug/L	P409048	
		Fenuron	0.016	U	ug/L	P409048	
		Fluridone	0.0025	I	ug/L	P409048	
		Imazapyr	0.18		ug/L	P409048	
		Hydrocodone	0.0020	U	ug/L	P409048	
		Ibuprofen	0.020	U	ug/L	P409048	
		Imidacloprid	0.0025	I	ug/L	P409048	
		Linuron	0.0040	U	ug/L	P409048	
		Mandestrobin	0.0020	U	ug/L	P409048	
		MCPP	0.0020	U	ug/L	P409048	
		Naproxen	0.0080	U	ug/L	P409048	
		Primidone	0.0040	U	ug/L	P409048	
		Pyraclostrobin	0.0020	U	ug/L	P409048	
		Silvex	0.0040	U	ug/L	P409048	
		Thiamethoxam	0.0020	U	ug/L	P409048	
		Tolfenpyrad	0.0020	U	ug/L	P409048	
		Triclopyr	0.0040	U	ug/L	P409048	
2302377	EPA 8270E	Aldrin	0.69	UQ	ng/L	P409527	

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302377	EPA 8270E	Alpha-BHC	0.11	UQ	ng/L	P409527	
		Alpha-Chlordane	0.21	UQ	ng/L	P409527	
		Beta-BHC	0.11	UQ	ng/L	P409527	
		Beta-Cyfluthrin**	1.3	UQ	ng/L	P409527	
		Bifenthrin**	0.53	UQ	ng/L	P409527	
		Chlorothalonil	1.3	UQ	ng/L	P409527	
		Cis-Nonachlor**	0.21	UQ	ng/L	P409527	
		Cypermethrin	1.6	UQ	ng/L	P409527	
		Dacthal**	0.16	UQ	ng/L	P409527	
		DDD-p,p'	0.27	UQ	ng/L	P409527	
		DDE-p,p'	0.21	UQ	ng/L	P409527	
		DDT-p,p'	0.27	UQ	ng/L	P409527	
		Delta-BHC	0.43	UQ	ng/L	P409527	
		Deltamethrin**	1.3	UQ	ng/L	P409527	
		Dichlobenil**	0.27	UQ	ng/L	P409527	
		Dicofol	1.3	UQJ	ng/L	P409527	MS
		Dieldrin	0.43	UQ	ng/L	P409527	
		Endosulfan I	0.43	UQ	ng/L	P409527	
		Endosulfan II	0.43	UQ	ng/L	P409527	
		Endosulfan Sulfate	0.32	UQ	ng/L	P409527	
		Endrin	0.43	UQ	ng/L	P409527	
		Endrin Aldehyde	0.80	UQ	ng/L	P409527	
		Endrin Ketone	0.43	UQ	ng/L	P409527	
		Esfenvalerate**	0.80	UQ	ng/L	P409527	
		Ethalfuralin**	0.16	UQ	ng/L	P409527	
		Fenpropathrin**	0.27	UQ	ng/L	P409527	
		Gamma-BHC	0.13	UQ	ng/L	P409527	
		Gamma-Chlordane	0.21	UQ	ng/L	P409527	
		Heptachlor	0.21	UQ	ng/L	P409527	
		Heptachlor Epoxide	0.27	UQ	ng/L	P409527	
		Hexachlorobenzene	1.1	UQ	ng/L	P409527	
		Kepone**	5.3	UQJ	ng/L	P409527	CCV
		Lambda-Cyhalothrin**	0.80	UQ	ng/L	P409527	
		Methoprene**	0.80	UQ	ng/L	P409527	
		Methoxychlor	0.32	UQ	ng/L	P409527	
		MGK-264**	0.21	UQ	ng/L	P409527	
		Mirex	0.75	UQ	ng/L	P409527	
		Oxychlordane**	0.32	UQ	ng/L	P409527	
		Permethrin	1.7	UQ	ng/L	P409527	
		Phenothrin**	0.96	UQ	ng/L	P409527	
		Piperonyl Butoxide**	0.16	UQ	ng/L	P409527	
		Prallethrin**	2.1	UQ	ng/L	P409527	
		Tau-Fluvalinate**	0.27	UQ	ng/L	P409527	
		Tetramethrin**	0.80	UQ	ng/L	P409527	
		Trans-Nonachlor**	0.21	UQ	ng/L	P409527	

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302377	EPA 8270E	Triclosan Methyl**	0.16	UQ	ng/L	P409527	
		Trifluralin	0.21	UQ	ng/L	P409527	
	EPA 8276	Chlordane	2.7	UQ	ng/L	P409527	
		Toxaphene	16	UQ	ng/L	P409527	
2302378	EPA 8270E	Acetochlor	0.24	U	ng/L	P409250	
		Alachlor	0.24	U	ng/L	P409250	
		Ametryn	0.58	U	ng/L	P409250	
		Atrazine	54		ng/L	P409250	MS
		Atrazine Desethyl	5.5	I	ng/L	P409250	
		Azinphos Methyl	1.9	U	ng/L	P409250	
		Azoxystrobin**	0.77	I	ng/L	P409250	
		Bromacil	1.1	I	ng/L	P409250	MS, RPD
		Butylate	0.39	U	ng/L	P409250	
		Caffeine**	9.6	I	ng/L	P409250	
		Carbophenothion	0.19	U	ng/L	P409250	
		Carfentrazone Ethyl**	0.097	U	ng/L	P409250	
		Chlorfenapyr**	0.17	U	ng/L	P409250	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P409250	
		Chlorpyrifos Methyl	0.049	U	ng/L	P409250	
		Coumaphos**	0.49	U	ng/L	P409250	
		Cyanazine	3.2	U	ng/L	P409250	
		Cyprodinil**	0.097	U	ng/L	P409250	
		Demeton	1.5	U	ng/L	P409250	
		Diazinon	0.12	U	ng/L	P409250	
		Difenoconazole**	0.58	U	ng/L	P409250	
		Dimethenamid**	0.097	U	ng/L	P409250	
		Dimethomorph**	0.17	U	ng/L	P409250	
		Disulfoton	0.49	U	ng/L	P409250	
		Dithiopyr**	0.23	I	ng/L	P409250	
		EPTC	1.2	U	ng/L	P409250	
		Ethion	0.15	U	ng/L	P409250	
		Ethoprop	0.097	U	ng/L	P409250	
		Etridiazole**	0.15	U	ng/L	P409250	
		Fenamiphos	0.49	U	ng/L	P409250	
		Fenbuconazole**	0.31	I	ng/L	P409250	
		Fipronil	0.24	U	ng/L	P409250	
		Fipronil Desulfinyl**	0.24	I	ng/L	P409250	
		Fipronil Sulfide	0.33	I	ng/L	P409250	
		Fipronil Sulfone	0.49	I	ng/L	P409250	
		Fluazifop-P-butyl**	0.097	U	ng/L	P409250	
		Fludioxonil**	0.16	I	ng/L	P409250	
		Flumioxazin**	1.7	U	ng/L	P409250	
		Flutolanil**	0.14	I	ng/L	P409250	
		Fluxapyroxad**	0.16	I	ng/L	P409250	
		Fonofos	0.19	U	ng/L	P409250	

Field ID: 27010050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302378	EPA 8270E	Hexazinone	8.6		ng/L	P409250	
		Imazalil**	0.73	U	ng/L	P409250	
		Iprodione**	0.58	U	ng/L	P409250	
		Loratadine**	0.097	U	ng/L	P409250	
		Malathion	0.34	U	ng/L	P409250	
		Metalaxyl	0.73	U	ng/L	P409250	
		Metolachlor	0.85	I	ng/L	P409250	
		Metribuzin	2.4	U	ng/L	P409250	
		Mevinphos	1.0	U	ng/L	P409250	RPD
		Molinate	0.29	U	ng/L	P409250	
		Myclobutanil**	1.8		ng/L	P409250	
		Naled**	1.5	U	ng/L	P409250	
		Napropamide**	0.39	U	ng/L	P409250	
		Norflurazon	0.49	U	ng/L	P409250	
		Oxadiazon	0.29	U	ng/L	P409250	
		Oxyfluorfen**	0.15	U	ng/L	P409250	
		Parathion Ethyl	0.24	U	ng/L	P409250	
		Parathion Methyl	0.54	U	ng/L	P409250	
		Pendimethalin	0.97	U	ng/L	P409250	
		Phenytol**	3.4	U	ng/L	P409250	
		Phorate	0.51	U	ng/L	P409250	
		Prodiamine**	0.17	U	ng/L	P409250	
		Prometon	1.2	I	ng/L	P409250	
		Prometryn	0.19	U	ng/L	P409250	
		Pronamide**	0.15	U	ng/L	P409250	MS
		Propanil**	0.12	U	ng/L	P409250	RPD
		Propargite**	1.5	U	ng/L	P409250	
		Propiconazole**	2.8		ng/L	P409250	
		Pyraflufen Ethyl**	0.24	U	ng/L	P409250	
		Pyridaben**	0.55	I	ng/L	P409250	
		Pyriproxyfen**	0.12	U	ng/L	P409250	
		Simazine	5.6		ng/L	P409250	
		Stirophos**	0.18	I	ng/L	P409250	
		Sulfentrazone**	2.8		ng/L	P409250	RPD
		Tebuconazole**	0.82	I	ng/L	P409250	
		Terbufos	0.097	U	ng/L	P409250	
		Terbuthylazine	0.41	U	ng/L	P409250	
		Thiobencarb**	0.58	U	ng/L	P409250	
		Triadimefon**	0.24	U	ng/L	P409250	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Sample expired for preparation due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes. Sample expired for preparation due to need for re-extraction.

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

Sample Location: Moses CR at US 1

Collection Date/Time: 01/27/2022 09:20

Field ID: FB01272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302466	EPA 8321B	Aldicarb	0.020	U	ug/L	P409047	
		Aldicarb Sulfone	0.0020	U	ug/L	P409047	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409047	
		Carbaryl	0.0020	U	ug/L	P409047	
		Carbofuran	0.0020	U	ug/L	P409047	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409047	
		Methiocarb	0.0020	U	ug/L	P409047	
		Methomyl	0.0020	U	ug/L	P409047	
		Oxamyl	0.0020	U	ug/L	P409047	
		Propoxur	0.0020	U	ug/L	P409047	
2302467		2,4-D	0.0020	U	ug/L	P409301	
		Acesulfame K	0.10	U	ug/L	P409131	
		2,4,5-T	0.0040	U	ug/L	P409301	
		AMPA	0.10	U	ug/L	P409131	
		Acetaminophen	0.0080	U	ug/L	P409301	
		Acetamiprid	0.0020	U	ug/L	P409301	
		Endothall	0.25	U	ug/L	P409131	MS
		Glufosinate	0.10	U	ug/L	P409131	
		Glyphosate	0.10	U	ug/L	P409131	
		Afidopyropen	0.0020	U	ug/L	P409301	MS
		Bentazon	8.0E-04	U	ug/L	P409301	
		Sucralose	0.010	U	ug/L	P409131	
		Benzovindiflupyr	0.0020	U	ug/L	P409301	
		Carbamazepine	8.0E-04	U	ug/L	P409301	
		Clothianidin	0.0020	U	ug/L	P409301	
		Dinotefuran	0.0020	U	ug/L	P409301	
		Diuron	0.0020	U	ug/L	P409301	
		Fenuron	0.016	U	ug/L	P409301	
		Fluridone	8.0E-04	U	ug/L	P409301	
		Imazapyr	0.0040	U	ug/L	P409301	
		Hydrocodone	0.0020	U	ug/L	P409301	
		Ibuprofen	0.020	U	ug/L	P409301	
		Imidacloprid	0.0020	U	ug/L	P409301	
		Linuron	0.0040	U	ug/L	P409301	
		Mandestrobin	0.0020	U	ug/L	P409301	
		MCPP	0.0040	U	ug/L	P409301	
		Naproxen	0.0080	U	ug/L	P409301	
		Primidone	0.0040	U	ug/L	P409301	
		Pyraclostrobin	0.0020	U	ug/L	P409301	
		Silvex	0.0040	U	ug/L	P409301	
		Thiamethoxam	0.0020	U	ug/L	P409301	
		Tolfenpyrad	0.0020	U	ug/L	P409301	
		Triclopyr	0.0040	U	ug/L	P409301	
2302468	EPA 8270E	Aldrin	0.68	UQ	ng/L	P409527	

Field ID: FB01272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302468	EPA 8270E	Alpha-BHC	0.11	UQ	ng/L	P409527	
		Alpha-Chlordane	0.21	UQ	ng/L	P409527	
		Beta-BHC	0.11	UQ	ng/L	P409527	
		Beta-Cyfluthrin**	1.3	UQ	ng/L	P409527	
		Bifenthrin**	0.53	UQ	ng/L	P409527	
		Chlorothalonil	1.3	UQ	ng/L	P409527	
		Cis-Nonachlor**	0.21	UQ	ng/L	P409527	
		Cypermethrin	1.6	UQ	ng/L	P409527	
		Dacthal**	0.16	UQ	ng/L	P409527	
		DDD-p,p'	0.26	UQ	ng/L	P409527	
		DDE-p,p'	0.21	UQ	ng/L	P409527	
		DDT-p,p'	0.26	UQ	ng/L	P409527	
		Delta-BHC	0.42	UQ	ng/L	P409527	
		Deltamethrin**	1.3	UQ	ng/L	P409527	
		Dichlobenil**	0.26	UQ	ng/L	P409527	
		Dicofol	1.3	UQ	ng/L	P409527	MS
		Dieldrin	0.42	UQ	ng/L	P409527	
		Endosulfan I	0.42	UQ	ng/L	P409527	
		Endosulfan II	0.42	UQ	ng/L	P409527	
		Endosulfan Sulfate	0.32	UQ	ng/L	P409527	
		Endrin	0.42	UQ	ng/L	P409527	
		Endrin Aldehyde	0.79	UQ	ng/L	P409527	
		Endrin Ketone	0.42	UQ	ng/L	P409527	
		Esfenvalerate**	0.79	UQ	ng/L	P409527	
		Ethalfuralin**	0.16	UQ	ng/L	P409527	
		Fenpropathrin**	0.26	UQ	ng/L	P409527	
		Gamma-BHC	0.13	UQ	ng/L	P409527	
		Gamma-Chlordane	0.21	UQ	ng/L	P409527	
		Heptachlor	0.21	UQ	ng/L	P409527	
		Heptachlor Epoxide	0.26	UQ	ng/L	P409527	
		Hexachlorobenzene	1.1	UQ	ng/L	P409527	
		Kepone**	5.3	UQJ	ng/L	P409527	CCV
		Lambda-Cyhalothrin**	0.79	UQ	ng/L	P409527	
		Methoprene**	0.79	UQ	ng/L	P409527	
		Methoxychlor	0.32	UQ	ng/L	P409527	
		MGK-264**	0.21	UQ	ng/L	P409527	
		Mirex	0.74	UQ	ng/L	P409527	
		Oxychlordane**	0.32	UQ	ng/L	P409527	
		Permethrin	1.7	UQ	ng/L	P409527	
		Phenothrin**	0.95	UQ	ng/L	P409527	
		Piperonyl Butoxide**	0.16	UQ	ng/L	P409527	
		Prallethrin**	2.1	UQ	ng/L	P409527	
		Tau-Fluvalinate**	0.26	UQ	ng/L	P409527	
		Tetramethrin**	0.79	UQ	ng/L	P409527	
		Trans-Nonachlor**	0.21	UQ	ng/L	P409527	

Field ID: FB01272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302468	EPA 8270E	Triclosan Methyl**	0.16	UQ	ng/L	P409527	
		Trifluralin	0.21	UQ	ng/L	P409527	
	EPA 8276	Chlordane	2.6	UQ	ng/L	P409527	
		Toxaphene	16	UQ	ng/L	P409527	
2302469	EPA 8270E	Acetochlor	0.25	U	ng/L	P409250	
		Alachlor	0.25	U	ng/L	P409250	
		Ametryn	0.59	U	ng/L	P409250	
		Atrazine	0.25	U	ng/L	P409250	MS
		Atrazine Desethyl	1.5	U	ng/L	P409250	
		Azinphos Methyl	2.0	U	ng/L	P409250	
		Azoxystrobin**	0.49	U	ng/L	P409250	
		Bromacil	0.49	U	ng/L	P409250	MS, RPD
		Butylate	0.39	U	ng/L	P409250	
		Caffeine**	7.4	U	ng/L	P409250	
		Carbophenothion	0.20	U	ng/L	P409250	
		Carfentrazone Ethyl**	0.098	U	ng/L	P409250	
		Chlorfenapyr**	0.17	U	ng/L	P409250	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P409250	
		Chlorpyrifos Methyl	0.049	U	ng/L	P409250	
		Coumaphos**	0.49	U	ng/L	P409250	
		Cyanazine	3.2	U	ng/L	P409250	
		Cyprodinil**	0.098	U	ng/L	P409250	
		Demeton	1.5	U	ng/L	P409250	
		Diazinon	0.12	U	ng/L	P409250	
		Difenoconazole**	0.59	U	ng/L	P409250	
		Dimethenamid**	0.098	U	ng/L	P409250	
		Dimethomorph**	0.17	U	ng/L	P409250	
		Disulfoton	0.49	U	ng/L	P409250	
		Dithiopyr**	0.17	U	ng/L	P409250	
		EPTC	1.2	U	ng/L	P409250	
		Ethion	0.15	U	ng/L	P409250	
		Ethoprop	0.098	U	ng/L	P409250	
		Etridiazole**	0.15	U	ng/L	P409250	
		Fenamiphos	0.49	U	ng/L	P409250	
		Fenbuconazole**	0.12	U	ng/L	P409250	
		Fipronil	0.25	U	ng/L	P409250	
		Fipronil Desulfinyl**	0.12	U	ng/L	P409250	
		Fipronil Sulfide	0.15	U	ng/L	P409250	
		Fipronil Sulfone	0.15	U	ng/L	P409250	
		Fluazifop-P-butyl**	0.098	U	ng/L	P409250	
		Fludioxonil**	0.12	U	ng/L	P409250	
		Flumioxazin**	1.7	U	ng/L	P409250	
		Flutolanil**	0.098	U	ng/L	P409250	
		Fluxapyroxad**	0.098	U	ng/L	P409250	
		Fonofos	0.20	U	ng/L	P409250	

Field ID: FB01272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302469	EPA 8270E	Hexazinone	0.49	U	ng/L	P409250	
		Imazalil**	0.74	U	ng/L	P409250	
		Iprodione**	0.59	U	ng/L	P409250	
		Loratadine**	0.098	U	ng/L	P409250	
		Malathion	0.34	U	ng/L	P409250	
		Metalaxyl	0.74	U	ng/L	P409250	
		Metolachlor	0.34	U	ng/L	P409250	
		Metribuzin	2.5	U	ng/L	P409250	
		Mevinphos	1.0	U	ng/L	P409250	RPD
		Molinate	0.29	U	ng/L	P409250	
		Myclobutanil**	0.25	U	ng/L	P409250	
		Naled**	1.5	U	ng/L	P409250	
		Napropamide**	0.39	U	ng/L	P409250	
		Norflurazon	0.49	U	ng/L	P409250	
		Oxadiazon	0.29	U	ng/L	P409250	
		Oxyfluorfen**	0.15	U	ng/L	P409250	
		Parathion Ethyl	0.25	U	ng/L	P409250	
		Parathion Methyl	0.54	U	ng/L	P409250	
		Pendimethalin	0.98	U	ng/L	P409250	
		Phenytol**	3.4	U	ng/L	P409250	
		Phorate	0.51	U	ng/L	P409250	
		Prodiamine**	0.17	U	ng/L	P409250	
		Prometon	0.88	U	ng/L	P409250	
		Prometryn	0.20	U	ng/L	P409250	
		Pronamide**	0.15	U	ng/L	P409250	MS
		Propanil**	0.12	U	ng/L	P409250	RPD
		Propargite**	1.5	U	ng/L	P409250	
		Propiconazole**	0.49	U	ng/L	P409250	
		Pyraflufen Ethyl**	0.25	U	ng/L	P409250	
		Pyridaben**	0.44	U	ng/L	P409250	
		Pyriproxyfen**	0.12	U	ng/L	P409250	
		Simazine	0.49	U	ng/L	P409250	
		Stirophos**	0.12	I	ng/L	P409250	
		Sulfentrazone**	0.49	U	ng/L	P409250	RPD
		Tebuconazole**	0.49	U	ng/L	P409250	
		Terbufos	0.098	U	ng/L	P409250	
		Terbuthylazine	0.42	U	ng/L	P409250	
		Thiobencarb**	0.59	U	ng/L	P409250	
		Triadimefon**	0.25	U	ng/L	P409250	

Ref. Method and Comment:

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Sample expired for preparation due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes. Sample expired for preparation due to need for re-extraction.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409164

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409246

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: P409246

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: P409350

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409238

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409318

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409379

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409182

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409158

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

Reference Method: EPA 8270E

Batch ID: P409250

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
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
Caffeine	7.5	U	ng/L
Caffeine	7.5	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409250

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409250

Component	Result	Code	Units
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
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
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
Phenytol	3.5	U	ng/L
Phenytol	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409250

Component	Result	Code	Units
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: P409527

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
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409527

Component	Result	Code	Units
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
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409527

Component	Result	Code	Units
Oxychlordane	0.30	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 8276

Batch ID: P409527

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: P409047

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: P409048

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P409048

Component	Result	Code	Units
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
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: EPA 8321B

Batch ID: P409131

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: P409301

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P409301

Component	Result	Code	Units
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	0.0040	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: P409434

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

Reference Method: SM 2540 D-2011

Batch ID: P409667

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011

Batch ID: P409437

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P410104

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	108		P	85 - 115
Magnesium	107		P	85 - 115
Strontium	104		P	85 - 115
Tin	109		P	85 - 115
Vanadium	99.7		P	85 - 115
Zinc	110		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	103		P	85 - 115
Beryllium	96.0		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	102		P	85 - 115
Copper	99.6		P	85 - 115
Lead	99.3		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	102		P	85 - 115
Selenium	101		P	85 - 115
Silver	103		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409350

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409238

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409318

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409379

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409182

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: P409158

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

Reference Method: EPA 8270E

Batch ID: P409250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.2		P	70 - 121
Alachlor	88.6		P	68 - 119
Ametryn	96.4		P	64 - 139
Atrazine	94.2		P	76 - 120
Atrazine Desethyl	50.0		P	44 - 126
Azinphos Methyl	82.2		P	43 - 192
Azoxystrobin	91.4		P	36 - 224
Bromacil	68.6		P	52 - 121
Butylate	66.3		P	28 - 91.0
Caffeine	131		P	50 - 134
Carbophenothion	90.5		P	56 - 129
Carfentrazone Ethyl	88.5		P	60 - 141
Chlorfenapyr	91.5		P	56 - 115
Chlorpyrifos Ethyl	111		P	60 - 118
Chlorpyrifos Methyl	97.5		P	68 - 119
Coumaphos	137		P	18 - 250
Cyanazine	86.3		P	61 - 250
Cyprodinil	85.9		P	55 - 145
Demeton	85.5		P	30 - 159
Diazinon	108		P	70 - 123
Difenoconazole	89.8		P	49 - 204
Dimethenamid	82.6		P	64 - 115
Dimethomorph	86.6		P	12 - 219
Disulfoton	87.3		P	44 - 125
Dithiopyr	101		P	64 - 115
EPTC	62.6		P	28 - 86.0
Ethion	97.5		P	33 - 125
Ethoprop	87.2		P	64 - 116
Etridiazole	65.7		P	34 - 91.0
Fenamiphos	107		P	12 - 127
Fenbuconazole	113		P	59 - 151
Fipronil	96.3		P	67 - 129
Fipronil Desulfinyl	90.6		P	65 - 127
Fipronil Sulfide	90.2		P	61 - 116
Fipronil Sulfone	86.9		P	55 - 117
Fluazifop-P-butyl	87.6		P	62 - 127
Fludioxonil	92.9		P	62 - 128
Flumioxazin	121		P	33 - 250
Flutolanil	84.7		P	56 - 127
Fluxapyroxad	109		P	45 - 128

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fonofos	85.4		P	62 - 111
Hexazinone	88.3		P	46 - 139
Imazalil	79.3		P	38 - 142
Iprodione	62.7		P	47 - 135
Loratadine	76.1		P	10 - 244
Malathion	122		P	61 - 139
Metalaxyl	84.3		P	10 - 119
Metolachlor	93.5		P	65 - 118
Metribuzin	85.8		P	51 - 250
Mevinphos	80.1		P	53 - 121
Molinate	75.2		P	42 - 96.0
Myclobutanil	91.0		P	55 - 128
Naled	90.1		P	10 - 98.0
Napropamide	82.8		P	49 - 121
Norflurazon	93.2		P	61 - 126
Oxadiazon	80.4		P	59 - 116
Oxyfluorfen	107		P	64 - 137
Parathion Ethyl	88.8		P	70 - 112
Parathion Methyl	108		P	76 - 133
Pendimethalin	80.5		P	52 - 117
Phenytol	53.8		P	10 - 199
Phorate	97.5		P	48 - 121
Prodiamine	124		P	26 - 142
Prometon	101		P	43 - 123
Prometryn	82.9		P	66 - 127
Pronamide	92.3		P	75 - 121
Propanil	100		P	45 - 150
Propargite	127		P	42 - 208
Propiconazole	101		P	60 - 125
Pyraflufen Ethyl	113		P	70 - 138
Pyridaben	117		P	35 - 245
Pyriproxyfen	70.1		P	30 - 149
Simazine	84.0		P	72 - 125
Stirophos	88.0		P	29 - 164
Sulfentrazone	59.6		P	21 - 139
Tebuconazole	115		P	10 - 115
Terbufos	105		P	60 - 123
Terbuthylazine	86.6		P	72 - 115
Thiobencarb	99.1		P	31 - 139
Triadimefon	82.3		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P409527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	46.5	48.9	P/P	10 - 93.0
Alpha-BHC	91.7	93.8	P/P	75 - 106
Alpha-Chlordane	66.7	68.7	P/P	50 - 109
Beta-BHC	99.7	104	P/P	65 - 135
Beta-Cyfluthrin	60.8	46.1	P/P	23 - 167
Bifenthrin	35.0	32.9	P/P	11 - 123
Chlorothalonil	118	94.4	P/P	26 - 182

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cis-Nonachlor	62.0	53.5	P/P	40 - 111
Cypermethrin	50.8	39.0	P/P	25 - 155
Dacthal	93.5	91.4	P/P	73 - 112
DDD-p,p'	60.1	48.8	P/P	47 - 108
DDE-p,p'	72.3	62.8	P/P	48 - 107
DDT-p,p'	79.0	83.3	P/P	49 - 111
Delta-BHC	99.6	102	P/P	68 - 143
Deltamethrin	56.9	39.1	P/P	16 - 176
Dichlobenil	90.4	78.9	P/P	32 - 113
Dicofol	67.5	71.7	P/P	50 - 108
Dieldrin	69.0	63.3	P/P	56 - 110
Endosulfan I	73.0	77.1	P/P	60 - 105
Endosulfan II	69.9	69.2	P/P	50 - 120
Endosulfan Sulfate	82.6	85.6	P/P	55 - 121
Endrin	67.3	63.9	P/P	35 - 117
Endrin Aldehyde	56.1	42.5	P/P	36 - 116
Endrin Ketone	75.5	63.2	P/P	56 - 130
Esfenvalerate	55.3	40.2	P/P	10 - 179
Ethalfuralin	66.2	65.1	P/P	49 - 99.0
Fenpropathrin	47.4	37.1	P/P	35 - 119
Gamma-BHC	87.9	84.2	P/P	72 - 115
Gamma-Chlordane	60.6	60.2	P/P	45 - 107
Heptachlor	58.9	65.6	P/P	41 - 100
Heptachlor Epoxide	77.3	67.4	P/P	58 - 106
Hexachlorobenzene	56.4	70.9	P/P	39 - 100
Kepone	138	71.9	P/P	10 - 191
Lambda-Cyhalothrin	50.2	33.4	P/P	10 - 186
Methoprene	46.7	29.0	P/P	10 - 129
Methoxychlor	80.7	87.3	P/P	61 - 111
MGK-264	79.6	62.8	P/P	20 - 123
Mirex	45.2	49.1	P/P	10 - 182
Oxychlordane	69.1	60.2	P/P	39 - 110
Permethrin	58.1	47.1	P/P	26 - 152
Phenothrin	25.5	21.7	P/P	10 - 109
Piperonyl Butoxide	68.7	50.3	P/P	27 - 142
Prallethrin	67.3	66.9	P/P	14 - 109
Tau-Fluvalinate	38.2	27.4	P/P	16 - 134
Tetramethrin	62.5	51.9	P/P	10 - 125
Trans-Nonachlor	66.5	52.3	P/P	45 - 107
Triclosan Methyl	77.0	79.0	P/P	60 - 110
Trifluralin	67.4	61.2	P/P	49 - 98.0

Reference Method: EPA 8276
Batch ID: P409527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	84.6	78.1	P/P	61 - 118
Toxaphene	66.8	59.8	P/P	51 - 122

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P409047

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.7		P	30 - 160
Aldicarb	45.1		P	30 - 160
Aldicarb Sulfone	93.7		P	30 - 160
Aldicarb Sulfoxide	90.8		P	30 - 160
Carbaryl	81.3		P	30 - 160
Carbofuran	86.3		P	30 - 160
Methiocarb	70.4		P	30 - 160
Methomyl	88.6		P	30 - 160
Oxamyl	95.6		P	30 - 160
Propoxur	78.6		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P409048

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.2		P	30 - 160
2,4,5-T	75.5		P	30 - 160
Acetaminophen	96.0		P	30 - 160
Acetamiprid	98.2		P	30 - 160
Afidopyropen	71.9		P	30 - 160
Bentazon	105		P	30 - 160
Benzovindiflupyr	93.1		P	30 - 160
Carbamazepine	99.5		P	30 - 160
Clothianidin	106		P	30 - 160
Dinotefuran	105		P	30 - 160
Diuron	92.4		P	30 - 160
Fenuron	111		P	30 - 160
Fluridone	97.5		P	30 - 160
Hydrocodone	115		P	30 - 160
Ibuprofen	79.1		P	30 - 160
Imazapyr	149		P	30 - 160
Imidacloprid	91.8		P	30 - 160
Linuron	84.1		P	30 - 160
Mandestrobin	99.1		P	30 - 160
MCPP	108		P	30 - 160
Naproxen	98.5		P	30 - 160
Primidone	99.4		P	30 - 160
Pyraclostrobin	92.4		P	30 - 160
Silvex	69.8		P	30 - 160
Thiamethoxam	96.0		P	30 - 160
Tolfenpyrad	52.0		P	30 - 160
Triclopyr	75.5		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P409131

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	75.4		P	40 - 150
AMPA	104		P	40 - 150
Endothall	97.4		P	40 - 150
Glufosinate	92.0		P	40 - 150
Glyphosate	87.3		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P409131

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	95.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409301

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	91.8		P	40 - 150
2,4,5-T	73.8		P	40 - 150
Acetaminophen	87.0		P	30 - 150
Acetamiprid	94.5		P	40 - 150
Afidopyropen	75.7		P	40 - 150
Bentazon	101		P	30 - 150
Benzovindiflupyr	85.1		P	40 - 150
Carbamazepine	84.1		P	40 - 150
Clothianidin	86.7		P	40 - 150
Dinotefuran	90.6		P	40 - 150
Diuron	102		P	40 - 150
Fenuron	94.9		P	40 - 150
Fluridone	88.9		P	40 - 150
Hydrocodone	93.5		P	40 - 150
Ibuprofen	80.5		P	40 - 150
Imazapyr	96.2		P	40 - 150
Imidacloprid	94.7		P	40 - 150
Linuron	76.0		P	40 - 150
Mandestrobin	96.6		P	40 - 150
MCPP	92.2		P	40 - 150
Naproxen	60.9		P	40 - 150
Primidone	118		P	40 - 150
Pyraclostrobin	79.5		P	40 - 150
Silvex	69.8		P	40 - 150
Thiamethoxam	91.1		P	40 - 150
Tolfenpyrad	59.2		P	30 - 150
Triclopyr	75.3		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P409434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.6		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410104

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302750	Iron	107	103	P/P	70 - 130
2302750	Tin	97.4	107	P/P	70 - 130
2302750	Vanadium	107	108	P/P	70 - 130
2302750	Zinc	105	105	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302750	Aluminum	113	120	P/P	70 - 130
2302750	Antimony	96.0	100	P/P	70 - 130
2302750	Arsenic	109	114	P/P	70 - 130
2302750	Beryllium	97.6	98.0	P/P	70 - 130
2302750	Cadmium	87.1	92.6	P/P	70 - 130
2302750	Chromium	96.8	103	P/P	70 - 130
2302750	Cobalt	117	123	P/P	70 - 130
2302750	Copper	99.0	105	P/P	70 - 130
2302750	Lead	103	103	P/P	70 - 130
2302750	Manganese	94.8	101	P/P	70 - 130
2302750	Molybdenum	112	121	P/P	70 - 130
2302750	Nickel	114	123	P/P	70 - 130
2302750	Selenium	93.5	97.6	P/P	70 - 130
2302750	Silver	88.7	94.2	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409350

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302048	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302350	Kjeldahl Nitrogen	102	96.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409318

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302049	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302812	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409182

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302264	Total-P	98.9	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302351	O-Phosphate-P	99.7	100	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P409250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303075	Acetochlor	78.7	96.7	P/P	65 - 124
2303075	Alachlor	73.5	88.4	P/P	61 - 121
2303075	Ametryn	82.4	90.6	P/P	52 - 216
2303075	Atrazine	55.9	102	F/P	68 - 133
2303075	Atrazine Desethyl	32.5	44.3	P/P	15 - 160
2303075	Azinphos Methyl	74.0	87.2	P/P	40 - 292
2303075	Azoxystrobin	77.2	92.6	P/P	12 - 242
2303075	Bromacil	46.3	64.8	F/P	54 - 167
2303075	Butylate	49.0	59.8	P/P	14 - 94.0
2303075	Caffeine	97.3	115	P/P	10 - 226
2303075	Carbophenothion	88.1	88.2	P/P	49 - 122
2303075	Carfentrazone Ethyl	72.6	83.5	P/P	53 - 138
2303075	Chlorfenapyr	88.6	81.9	P/P	50 - 150
2303075	Chlorpyrifos Ethyl	96.9	110	P/P	52 - 122
2303075	Chlorpyrifos Methyl	86.5	96.3	P/P	66 - 117
2303075	Coumaphos	135	152	P/P	50 - 220
2303075	Cyanazine	73.3	86.8	P/P	43 - 245
2303075	Cyprodinil	74.4	90.2	P/P	50 - 150
2303075	Demeton	75.8	90.3	P/P	43 - 188
2303075	Diazinon	85.4	104	P/P	69 - 131
2303075	Difenoconazole	85.0	90.9	P/P	34 - 231
2303075	Dimethenamid	70.3	86.7	P/P	55 - 118
2303075	Dimethomorph	75.8	91.2	P/P	50 - 150
2303075	Disulfoton	78.6	96.5	P/P	38 - 141
2303075	Dithiopyr	86.6	93.1	P/P	42 - 116
2303075	EPTC	46.3	55.3	P/P	18 - 85.0
2303075	Ethion	92.8	88.1	P/P	10 - 131
2303075	Ethoprop	78.5	95.9	P/P	65 - 129
2303075	Etridiazole	52.1	63.0	P/P	50 - 150
2303075	Fenamiphos	101	114	P/P	31 - 137
2303075	Fenbuconazole	96.7	115	P/P	57 - 160
2303075	Fipronil	74.1	95.3	P/P	62 - 132
2303075	Fipronil Desulfinyl	65.2	88.7	P/P	57 - 131
2303075	Fipronil Sulfide	70.2	88.2	P/P	15 - 138
2303075	Fipronil Sulfone	70.4	83.7	P/P	21 - 134
2303075	Fluazifop-P-butyl	79.2	83.7	P/P	54 - 133
2303075	Fludioxonil	72.6	86.8	P/P	58 - 127
2303075	Flumioxazin	127	164	P/P	33 - 300
2303075	Flutolanil	64.4	85.5	P/P	42 - 130
2303075	Fluxapyroxad	88.9	127	P/P	23 - 141

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303075	Fonofos	72.3	87.7	P/P	58 - 119
2303075	Hexazinone	68.6	90.8	P/P	68 - 172
2303075	Imazalil	76.7	74.3	P/P	48 - 283
2303075	Iprodione	58.8	70.2	P/P	38 - 140
2303075	Loratadine	71.5	81.9	P/P	50 - 150
2303075	Malathion	103	116	P/P	40 - 137
2303075	Metalaxyl	69.9	82.5	P/P	21 - 129
2303075	Metolachlor	72.0	87.8	P/P	55 - 122
2303075	Metribuzin	70.5	74.5	P/P	38 - 187
2303075	Mevinphos	62.0	82.7	P/P	54 - 134
2303075	Molinate	63.4	77.5	P/P	41 - 97.0
2303075	Myclobutanil	76.8	89.0	P/P	56 - 125
2303075	Naled	75.1	88.7	P/P	10 - 108
2303075	Napropamide	67.1	80.3	P/P	50 - 150
2303075	Norflurazon	74.4	91.9	P/P	32 - 122
2303075	Oxadiazon	71.0	74.7	P/P	40 - 119
2303075	Oxyfluorfen	102	108	P/P	61 - 153
2303075	Parathion Ethyl	74.0	80.5	P/P	59 - 130
2303075	Parathion Methyl	91.7	108	P/P	65 - 155
2303075	Pendimethalin	72.1	78.3	P/P	49 - 138
2303075	Phenytol	50.1	66.3	P/P	50 - 200
2303075	Phorate	95.2	88.9	P/P	54 - 161
2303075	Prodiamine	109	117	P/P	33 - 161
2303075	Prometon	95.4	111	P/P	48 - 140
2303075	Prometryn	72.4	88.8	P/P	55 - 134
2303075	Pronamide	54.6	92.9	F/P	66 - 137
2303075	Propanil	76.2	104	P/P	50 - 150
2303075	Propargite	114	127	P/P	50 - 200
2303075	Propiconazole	89.9	104	P/P	36 - 150
2303075	Pyraflufen Ethyl	96.6	109	P/P	50 - 150
2303075	Pyridaben	108	117	P/P	50 - 200
2303075	Pyriproxyfen	64.5	67.2	P/P	10 - 165
2303075	Simazine	70.6	87.4	P/P	57 - 145
2303075	Stirophos	78.2	84.4	P/P	50 - 150
2303075	Tebuconazole	86.4	111	P/P	10 - 127
2303075	Terbufos	103	117	P/P	59 - 138
2303075	Terbuthylazine	73.9	89.8	P/P	68 - 119
2303075	Thiobencarb	78.5	96.1	P/P	50 - 150
2303075	Triadimefon	63.6	85.9	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P409527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302377	Aldrin	35.0		P	10 - 89.0
2302377	Alpha-BHC	83.5		P	71 - 105
2302377	Alpha-Chlordane	72.7		P	43 - 107
2302377	Beta-BHC	66.0		P	57 - 152
2302377	Beta-Cyfluthrin	92.6		P	29 - 186
2302377	Bifenthrin	76.7		P	19 - 119
2302377	Chlorothalonil	112		P	10 - 245
2302377	Cis-Nonachlor	63.0		P	36 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302377	Cypermethrin	93.6		P	24 - 169
2302377	Dacthal	68.9		P	62 - 115
2302377	DDD-p,p'	70.5		P	36 - 109
2302377	DDE-p,p'	78.4		P	30 - 114
2302377	DDT-p,p'	63.2		P	42 - 108
2302377	Delta-BHC	78.0		P	60 - 164
2302377	Deltamethrin	90.2		P	10 - 210
2302377	Dichlobenil	72.2		P	23 - 108
2302377	Dicofol	40.2		F	44 - 109
2302377	Dieldrin	72.3		P	37 - 119
2302377	Endosulfan I	71.9		P	52 - 105
2302377	Endosulfan II	60.9		P	35 - 127
2302377	Endosulfan Sulfate	42.8		P	39 - 130
2302377	Endrin	65.4		P	30 - 116
2302377	Endrin Aldehyde	41.6		P	20 - 110
2302377	Endrin Ketone	62.0		P	48 - 134
2302377	Esfenvalerate	89.1		P	10 - 199
2302377	Ethalfuralin	61.8		P	48 - 95.0
2302377	Fenpropathrin	60.9		P	37 - 121
2302377	Gamma-BHC	81.1		P	61 - 126
2302377	Gamma-Chlordane	73.0		P	39 - 105
2302377	Heptachlor	53.2		P	38 - 96.0
2302377	Heptachlor Epoxide	60.9		P	42 - 114
2302377	Hexachlorobenzene	60.4		P	39 - 93.0
2302377	Kepone	76.5		P	10 - 215
2302377	Lambda-Cyhalothrin	87.1		P	10 - 204
2302377	Methoprene	67.6		P	17 - 108
2302377	Methoxychlor	72.7		P	56 - 115
2302377	MGK-264	75.7		P	35 - 120
2302377	Mirex	63.8		P	10 - 178
2302377	Oxychlordane	60.2		P	47 - 91.0
2302377	Permethrin	102		P	27 - 170
2302377	Phenothrin	66.7		P	10 - 133
2302377	Piperonyl Butoxide	93.9		P	23 - 150
2302377	Prallethrin	47.9		P	21 - 113
2302377	Tau-Fluvalinate	66.0		P	16 - 158
2302377	Tetramethrin	94.9		P	22 - 132
2302377	Trans-Nonachlor	70.4		P	43 - 102
2302377	Triclosan Methyl	60.5		P	49 - 109
2302377	Trifluralin	54.9		P	48 - 93.0

Reference Method: EPA 8276
Batch ID: P409527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302759	Chlordane	79.2		P	55 - 128
2302759	Toxaphene	72.4		P	57 - 211

Reference Method: EPA 8321B
Batch ID: P409047

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

Reference Method: EPA 8321B

Batch ID: P409047

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301321	3-Hydroxycarbofuran	106	86.7	P/P	30 - 160
2301321	Aldicarb	82.8	80.8	P/P	30 - 160
2301321	Aldicarb Sulfone	116	119	P/P	30 - 160
2301321	Aldicarb Sulfoxide	46.1	60.2	P/P	30 - 160
2301321	Carbaryl	73.7	76.8	P/P	30 - 160
2301321	Carbofuran	81.2	87.0	P/P	30 - 160
2301321	Methiocarb	68.6	72.8	P/P	30 - 160
2301321	Methomyl	86.6	90.7	P/P	30 - 160
2301321	Oxamyl	94.1	108	P/P	30 - 160
2301321	Propoxur	81.9	91.9	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P409048

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301732	2,4-D	148	149	P/P	30 - 160
2301732	2,4,5-T	102	114	P/P	30 - 160
2301732	Acetaminophen	125	134	P/P	30 - 160
2301732	Acetamiprid	106	90.2	P/P	30 - 160
2301732	Afidopyropen	58.6	51.0	P/P	30 - 160
2301732	Benzovindiflupyr	92.0	94.0	P/P	30 - 160
2301732	Clothianidin	150	150	P/P	30 - 160
2301732	Dinotefuran	146	146	P/P	30 - 160
2301732	Diuron	88.9	84.5	P/P	30 - 160
2301732	Fenuron	89.8	92.5	P/P	30 - 160
2301732	Fluridone	106	102	P/P	30 - 160
2301732	Hydrocodone	120	120	P/P	30 - 160
2301732	Ibuprofen	71.8	77.6	P/P	30 - 160
2301732	Linuron	76.3	78.5	P/P	30 - 160
2301732	Mandestrobin	97.2	98.3	P/P	30 - 160
2301732	MCPP	138	142	P/P	30 - 160
2301732	Naproxen	89.4	106	P/P	30 - 160
2301732	Primidone	133	121	P/P	30 - 160
2301732	Pyraclostrobin	94.0	97.3	P/P	30 - 160
2301732	Silvex	102	111	P/P	30 - 160
2301732	Thiamethoxam	159	159	P/P	30 - 160
2301732	Tolfenpyrad	54.7	58.9	P/P	30 - 160
2301732	Triclopyr	110	120	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P409131

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302159	Acesulfame K	111	114	P/P	40 - 150
2302159	AMPA	90.2	101	P/P	40 - 150
2302159	Endothall	145	157	P/F	40 - 150
2302159	Glufosinate	91.2	89.6	P/P	40 - 150
2302159	Glyphosate	70.5	77.8	P/P	40 - 150
2302159	Sucralose	107	112	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P409301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302437	2,4-D	96.7	108	P/P	40 - 150
2302437	2,4,5-T	77.3	77.0	P/P	40 - 150
2302437	Acetaminophen	93.1	103	P/P	30 - 150
2302437	Acetamiprid	95.7	94.3	P/P	40 - 150
2302437	Afidopyropen	37.0	46.4	F/P	40 - 150
2302437	Bentazon	62.6	66.8	P/P	30 - 150
2302437	Benzovindiflupyr	76.4	95.6	P/P	40 - 150
2302437	Carbamazepine	88.4	89.6	P/P	40 - 150
2302437	Clothianidin	91.2	103	P/P	40 - 150
2302437	Dinotefuran	109	116	P/P	40 - 150
2302437	Diuron	72.3	90.8	P/P	40 - 150
2302437	Fenuron	83.6	91.1	P/P	40 - 150
2302437	Fluridone	78.6	88.9	P/P	40 - 150
2302437	Hydrocodone	89.3	75.4	P/P	40 - 150
2302437	Ibuprofen	68.3	72.9	P/P	40 - 150
2302437	Imazapyr	80.1	89.8	P/P	40 - 150
2302437	Imidacloprid	140	148	P/P	40 - 150
2302437	Linuron	83.3	81.3	P/P	40 - 150
2302437	Mandestrobin	88.5	92.8	P/P	40 - 150
2302437	MCCPP	87.2	115	P/P	40 - 150
2302437	Naproxen	78.5	73.3	P/P	40 - 150
2302437	Primidone	108	109	P/P	40 - 150
2302437	Pyraclostrobin	80.8	91.6	P/P	40 - 150
2302437	Silvex	67.1	76.3	P/P	40 - 150
2302437	Thiamethoxam	105	115	P/P	40 - 150
2302437	Tolfenpyrad	43.9	50.5	P/P	30 - 150
2302437	Triclopyr	77.0	70.7	P/P	40 - 150

Reference Method: SM 4500 F-C-2011

Batch ID: P409437

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302260	Fluoride	97.7	98.3	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P410104

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302353	Organic Carbon	89.0	90.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P409164

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302257	Turbidity	3.42	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409246

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302750	Calcium	0.411	Spike	P	0 - 20
2302750	Iron	3.08	Spike	P	0 - 20
2302750	Magnesium	1.01	Spike	P	0 - 20
2302750	Strontium	0.187	Spike	P	0 - 20
2302750	Tin	9.16	Spike	P	0 - 20
2302750	Vanadium	0.662	Spike	P	0 - 20
2302750	Zinc	0.750	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409246

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302750	Aluminum	6.04	Spike	P	0 - 20
2302750	Antimony	4.52	Spike	P	0 - 20
2302750	Arsenic	4.43	Spike	P	0 - 20
2302750	Beryllium	0.420	Spike	P	0 - 20
2302750	Cadmium	6.17	Spike	P	0 - 20
2302750	Chromium	6.60	Spike	P	0 - 20
2302750	Cobalt	5.32	Spike	P	0 - 20
2302750	Copper	5.21	Spike	P	0 - 20
2302750	Lead	0.142	Spike	P	0 - 20
2302750	Manganese	6.30	Spike	P	0 - 20
2302750	Molybdenum	5.29	Spike	P	0 - 20
2302750	Nickel	7.06	Spike	P	0 - 20
2302750	Selenium	4.25	Spike	P	0 - 20
2302750	Silver	6.07	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409350

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302048	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409238

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302350	Kjeldahl Nitrogen	4.02	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409318

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302049	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409379

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302812	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409182

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302264	Total-P	1.16	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409158

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302351	O-Phosphate-P	0.558	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P409250

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303075	Acetochlor	20.6	Spike	P	0 - 27
2303075	Alachlor	18.5	Spike	P	0 - 27
2303075	Ametryn	9.53	Spike	P	0 - 34
2303075	Atrazine	27.7	Spike	P	0 - 41
2303075	Atrazine Desethyl	30.8	Spike	P	0 - 38
2303075	Azinphos Methyl	16.4	Spike	P	0 - 62
2303075	Azoxystrobin	13.8	Spike	P	0 - 32
2303075	Bromacil	33.2	Spike	F	0 - 30
2303075	Butylate	19.8	Spike	P	0 - 59
2303075	Caffeine	13.3	Spike	P	0 - 60
2303075	Carbophenothion	0.0908	Spike	P	0 - 25
2303075	Carfentrazone Ethyl	13.9	Spike	P	0 - 26
2303075	Chlorfenapyr	7.88	Spike	P	0 - 30
2303075	Chlorpyrifos Ethyl	12.3	Spike	P	0 - 27
2303075	Chlorpyrifos Methyl	10.7	Spike	P	0 - 26
2303075	Coumaphos	11.9	Spike	P	0 - 30
2303075	Cyanazine	16.9	Spike	P	0 - 58
2303075	Cyprodinil	19.2	Spike	P	0 - 30
2303075	Demeton	17.5	Spike	P	0 - 25
2303075	Diazinon	19.5	Spike	P	0 - 29
2303075	Difenoconazole	6.68	Spike	P	0 - 25
2303075	Dimethenamid	20.9	Spike	P	0 - 30
2303075	Dimethomorph	18.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303075	Disulfoton	20.4	Spike	P	0 - 33
2303075	Dithiopyr	7.19	Spike	P	0 - 22
2303075	EPTC	17.7	Spike	P	0 - 38
2303075	Ethion	5.20	Spike	P	0 - 79
2303075	Ethoprop	19.9	Spike	P	0 - 23
2303075	Etridiazole	18.9	Spike	P	0 - 30
2303075	Fenamiphos	11.9	Spike	P	0 - 58
2303075	Fenbuconazole	16.9	Spike	P	0 - 37
2303075	Fipronil	21.8	Spike	P	0 - 33
2303075	Fipronil Desulfinyl	23.7	Spike	P	0 - 26
2303075	Fipronil Sulfide	12.1	Spike	P	0 - 37
2303075	Fipronil Sulfone	8.88	Spike	P	0 - 50
2303075	Fluazifop-P-butyl	5.56	Spike	P	0 - 24
2303075	Fludioxonil	17.8	Spike	P	0 - 26
2303075	Flumioxazin	25.9	Spike	P	0 - 37
2303075	Flutolanil	19.1	Spike	P	0 - 26
2303075	Fluxapyroxad	32.8	Spike	P	0 - 34
2303075	Fonofos	19.2	Spike	P	0 - 27
2303075	Hexazinone	25.0	Spike	P	0 - 36
2303075	Imazalil	3.14	Spike	P	0 - 65
2303075	Iprodione	17.7	Spike	P	0 - 33
2303075	Loratadine	13.5	Spike	P	0 - 30
2303075	Malathion	12.5	Spike	P	0 - 44
2303075	Metalaxyl	16.6	Spike	P	0 - 38
2303075	Metolachlor	18.0	Spike	P	0 - 36
2303075	Metribuzin	5.56	Spike	P	0 - 63
2303075	Mevinphos	28.7	Spike	F	0 - 26
2303075	Molinate	20.0	Spike	P	0 - 40
2303075	Myclobutanil	14.7	Spike	P	0 - 21
2303075	Naled	16.6	Spike	P	0 - 26
2303075	Napropamide	17.9	Spike	P	0 - 30
2303075	Norflurazon	21.0	Spike	P	0 - 24
2303075	Oxadiazon	5.14	Spike	P	0 - 27
2303075	Oxyfluorfen	5.99	Spike	P	0 - 24
2303075	Parathion Ethyl	8.40	Spike	P	0 - 28
2303075	Parathion Methyl	16.6	Spike	P	0 - 27
2303075	Pendimethalin	8.24	Spike	P	0 - 31
2303075	Phenytoin	27.9	Spike	P	0 - 30
2303075	Phorate	6.85	Spike	P	0 - 27
2303075	Prodiamine	7.15	Spike	P	0 - 52
2303075	Prometon	15.5	Spike	P	0 - 31
2303075	Prometryn	20.4	Spike	P	0 - 28
2303075	Pronamide	23.2	Spike	P	0 - 26
2303075	Propanil	30.8	Spike	F	0 - 30
2303075	Propargite	11.2	Spike	P	0 - 30
2303075	Propiconazole	14.9	Spike	P	0 - 31
2303075	Pyraflufen Ethyl	12.5	Spike	P	0 - 30
2303075	Pyridaben	7.44	Spike	P	0 - 30
2303075	Pyriproxyfen	4.09	Spike	P	0 - 50
2303075	Simazine	21.4	Spike	P	0 - 29
2303075	Stirophos	7.59	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303075	Sulfentrazone	36.8	Spike	F	0 - 33
2303075	Tebuconazole	20.3	Spike	P	0 - 44
2303075	Terbufos	12.6	Spike	P	0 - 29
2303075	Terbutylazine	19.4	Spike	P	0 - 27
2303075	Thiobencarb	20.1	Spike	P	0 - 30
2303075	Triadimefon	29.8	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P409527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Aldrin	4.97	LCS	P	0 - 61
LFB	Alpha-BHC	2.23	LCS	P	0 - 15
LFB	Alpha-Chlordane	2.89	LCS	P	0 - 23
LFB	Beta-BHC	4.55	LCS	P	0 - 24
LFB	Beta-Cyfluthrin	27.6	LCS	P	0 - 39
LFB	Bifenthrin	6.09	LCS	P	0 - 48
LFB	Chlorothalonil	22.3	LCS	P	0 - 32
LFB	Cis-Nonachlor	14.6	LCS	P	0 - 32
LFB	Cypermethrin	26.3	LCS	P	0 - 34
LFB	Dacthal	2.20	LCS	P	0 - 19
LFB	DDD-p,p'	20.7	LCS	P	0 - 28
LFB	DDE-p,p'	14.0	LCS	P	0 - 24
LFB	DDT-p,p'	5.27	LCS	P	0 - 22
LFB	Delta-BHC	2.22	LCS	P	0 - 20
LFB	Deltamethrin	37.1	LCS	P	0 - 47
LFB	Dichlobenil	13.6	LCS	P	0 - 22
LFB	Dicofol	6.02	LCS	P	0 - 21
LFB	Dieldrin	8.69	LCS	P	0 - 21
LFB	Endosulfan I	5.46	LCS	P	0 - 20
LFB	Endosulfan II	1.04	LCS	P	0 - 22
LFB	Endosulfan Sulfate	3.55	LCS	P	0 - 25
LFB	Endrin	5.29	LCS	P	0 - 20
LFB	Endrin Aldehyde	27.5	LCS	P	0 - 33
LFB	Endrin Ketone	17.7	LCS	P	0 - 20
LFB	Esfenvalerate	31.6	LCS	P	0 - 42
LFB	Ethalfuralin	1.68	LCS	P	0 - 20
LFB	Fenpropathrin	24.2	LCS	P	0 - 29
LFB	Gamma-BHC	4.37	LCS	P	0 - 16
LFB	Gamma-Chlordane	0.711	LCS	P	0 - 23
LFB	Heptachlor	10.7	LCS	P	0 - 27
LFB	Heptachlor Epoxide	13.7	LCS	P	0 - 20
LFB	Hexachlorobenzene	22.7	LCS	P	0 - 24
LFB	Kepone	63.0	LCS	P	0 - 80
LFB	Lambda-Cyhalothrin	40.1	LCS	P	0 - 42
LFB	Methoprene	46.8	LCS	P	0 - 48
LFB	Methoxychlor	7.87	LCS	P	0 - 22
LFB	MGK-264	23.6	LCS	P	0 - 54
LFB	Mirex	8.27	LCS	P	0 - 32
LFB	Oxychlordane	13.7	LCS	P	0 - 21

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Permethrin	20.8	LCS	P	0 - 36
LFB	Phenothrin	16.1	LCS	P	0 - 60
LFB	Piperonyl Butoxide	31.0	LCS	P	0 - 36
LFB	Prallethrin	0.559	LCS	P	0 - 41
LFB	Tau-Fluvalinate	33.0	LCS	P	0 - 40
LFB	Tetramethrin	18.4	LCS	P	0 - 66
LFB	Trans-Nonachlor	23.9	LCS	P	0 - 25
LFB	Triclosan Methyl	2.51	LCS	P	0 - 19
LFB	Trifluralin	9.61	LCS	P	0 - 21

Reference Method: EPA 8276
Batch ID: P409527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	7.92	LCS	P	0 - 37
LFB	Toxaphene	11.0	LCS	P	0 - 28

Reference Method: EPA 8321B
Batch ID: P409047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301321	3-Hydroxycarbofuran	20.0	Spike	P	0 - 30
2301321	Aldicarb	2.42	Spike	P	0 - 30
2301321	Aldicarb Sulfone	2.04	Spike	P	0 - 30
2301321	Aldicarb Sulfoxide	26.5	Spike	P	0 - 30
2301321	Carbaryl	4.15	Spike	P	0 - 30
2301321	Carbofuran	6.98	Spike	P	0 - 30
2301321	Methiocarb	5.84	Spike	P	0 - 30
2301321	Methomyl	4.63	Spike	P	0 - 30
2301321	Oxamyl	13.4	Spike	P	0 - 30
2301321	Propoxur	11.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301732	2,4-D	0.393	Spike	P	0 - 30
2301732	2,4,5-T	11.7	Spike	P	0 - 30
2301732	Acetaminophen	7.07	Spike	P	0 - 30
2301732	Acetamiprid	15.9	Spike	P	0 - 30
2301732	Afidopyropen	14.0	Spike	P	0 - 30
2301732	Bentazon	1.54	Spike	P	0 - 30
2301732	Benzovindiflupyr	2.22	Spike	P	0 - 30
2301732	Carbamazepine	1.98	Spike	P	0 - 30
2301732	Clothianidin	0.548	Spike	P	0 - 30
2301732	Dinotefuran	0.243	Spike	P	0 - 30
2301732	Diuron	5.16	Spike	P	0 - 30
2301732	Fenuron	2.99	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301732	Fluridone	2.46	Spike	P	0 - 30
2301732	Hydrocodone	0.721	Spike	P	0 - 30
2301732	Ibuprofen	7.74	Spike	P	0 - 30
2301732	Imazapyr	5.54	Spike	P	0 - 30
2301732	Imidacloprid	1.01	Spike	P	0 - 30
2301732	Linuron	2.84	Spike	P	0 - 30
2301732	Mandestrobin	1.10	Spike	P	0 - 30
2301732	MCPP	2.78	Spike	P	0 - 30
2301732	Naproxen	16.5	Spike	P	0 - 30
2301732	Primidone	5.78	Spike	P	0 - 30
2301732	Pyraclostrobin	3.49	Spike	P	0 - 30
2301732	Silvex	8.67	Spike	P	0 - 30
2301732	Thiamethoxam	0.436	Spike	P	0 - 30
2301732	Tolfenpyrad	7.51	Spike	P	0 - 30
2301732	Triclopyr	8.70	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302159	Acesulfame K	3.32	Spike	P	0 - 30
2302159	AMPA	11.1	Spike	P	0 - 30
2302159	Endothall	8.15	Spike	P	0 - 30
2302159	Glufosinate	1.73	Spike	P	0 - 30
2302159	Glyphosate	9.89	Spike	P	0 - 30
2302159	Sucralose	4.04	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302437	2,4-D	7.92	Spike	P	0 - 30
2302437	2,4,5-T	0.436	Spike	P	0 - 30
2302437	Acetaminophen	10.1	Spike	P	0 - 30
2302437	Acetamiprid	1.43	Spike	P	0 - 30
2302437	Afidopyropen	22.6	Spike	P	0 - 30
2302437	Bentazon	3.89	Spike	P	0 - 30
2302437	Benzovindiflupyr	22.3	Spike	P	0 - 30
2302437	Carbamazepine	1.35	Spike	P	0 - 30
2302437	Clothianidin	11.8	Spike	P	0 - 30
2302437	Dinotefuran	5.57	Spike	P	0 - 30
2302437	Diuron	22.7	Spike	P	0 - 30
2302437	Fenuron	8.58	Spike	P	0 - 30
2302437	Fluridone	12.4	Spike	P	0 - 30
2302437	Hydrocodone	16.9	Spike	P	0 - 30
2302437	Ibuprofen	6.48	Spike	P	0 - 30
2302437	Imazapyr	8.12	Spike	P	0 - 30
2302437	Imidacloprid	5.35	Spike	P	0 - 30
2302437	Linuron	2.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302437	Mandestrobin	4.81	Spike	P	0 - 30
2302437	MCCP	27.2	Spike	P	0 - 30
2302437	Naproxen	6.88	Spike	P	0 - 30
2302437	Primidone	0.580	Spike	P	0 - 30
2302437	Pyraclostrobin	12.4	Spike	P	0 - 30
2302437	Silvex	12.8	Spike	P	0 - 30
2302437	Thiamethoxam	7.81	Spike	P	0 - 30
2302437	Tolfenpyrad	14.1	Spike	P	0 - 30
2302437	Triclopyr	8.55	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P409434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302260	Total Alkalinity	1.34	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302260	Fluoride	0.480	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410104

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302353	Organic Carbon	1.12	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2302375
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	64.4	P	30 - 160

Lab Sample ID: 2302376
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	130	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Diuron-d6	73.8	P	30 - 160
EPA 8321B	Endothall-d6	146	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.2	P	30 - 160
EPA 8321B	Primidone-d5	123	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160

Lab Sample ID: 2302377
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	74.3	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	80.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	80.9	P	30 - 97.0
EPA 8276	PCNB	89.3	P	45 - 119

Lab Sample ID: 2302378
Field Sample ID: 27010050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	46.5	P	20 - 200
EPA 8270E	Simazine-d10	103	P	71 - 140
EPA 8270E	Terbufos-d10	87.5	P	62 - 131

Lab Sample ID: 2302466
Field Sample ID: FB01272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	92.5	P	30 - 160

Lab Sample ID: 2302467
Field Sample ID: FB01272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	68.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.2	P	30 - 160
EPA 8321B	Diuron-d6	76.8	P	30 - 160
EPA 8321B	Endothall-d6	90.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.5	P	30 - 160
EPA 8321B	Primidone-d5	80.1	P	30 - 160
EPA 8321B	Sucralose-d6	91.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2302468
Field Sample ID: FB01272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.7	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	77.5	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	67.7	P	30 - 97.0
EPA 8276	PCNB	86.9	P	45 - 119

Lab Sample ID: 2302469
Field Sample ID: FB01272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	59.8	P	20 - 200
EPA 8270E	Simazine-d10	113	P	71 - 140
EPA 8270E	Terbufos-d10	105	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110106

Included Lab Sample IDs: 2302351, 2302354

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110111

Included Lab Sample IDs: 2302349

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

Reference Method: EPA 8321B

Run ID: A110148

Included Lab Sample IDs: 2302376

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	77.0	78.8	P/P	50 - 150
2,4,5-T	72.4	69.7	P/P	50 - 150
3-Hydroxycarbofuran	107	109	P/P	60 - 150
Acetaminophen	118	119	P/P	60 - 160
Acetamiprid	107	107	P/P	50 - 150
Afidopyropen	99.1	102	P/P	50 - 150
Aldicarb	67.1	134	P/P	60 - 150
Aldicarb Sulfone	100	109	P/P	50 - 150
Aldicarb Sulfoxide	107	106	P/P	50 - 150
Bentazon	79.2	92.1	P/P	50 - 160
Benzovindiflupyr	108	105	P/P	50 - 160
Carbamazepine	107	108	P/P	60 - 150
Carbaryl	108	103	P/P	60 - 150
Carbofuran	104	105	P/P	50 - 150
Clothianidin	119	128	P/P	60 - 150
Dinotefuran	121	118	P/P	50 - 150
Diuron	117	109	P/P	60 - 160
Fenuron	118	116	P/P	60 - 150
Fluridone	108	119	P/P	60 - 160
Hydrocodone	109	106	P/P	60 - 150
Ibuprofen	75.6	65.7	P/P	50 - 160
Imazapyr	137	135	P/P	50 - 160
Imidacloprid	101	99.8	P/P	60 - 150
Linuron	113	118	P/P	60 - 150
Mandestrobin	114	113	P/P	50 - 150
MCPP	84.2	93.9	P/P	50 - 150
Methiocarb	107	113	P/P	50 - 150
Methomyl	111	110	P/P	50 - 150
Naproxen	97.7	116	P/P	50 - 160
Oxamyl	99.7	103	P/P	50 - 150
Primidone	86.3	99.5	P/P	60 - 150
Propoxur	100	103	P/P	50 - 150
Pyraclostrobin	111	111	P/P	60 - 150
Silvex	68.1	72.9	P/P	50 - 150
Thiamethoxam	108	110	P/P	50 - 150
Tolfenpyrad	99.3	98.3	P/P	60 - 150
Triclopyr	82.5	71.2	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110171

Included Lab Sample IDs: 2302353

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110182

Included Lab Sample IDs: 2302350, 2302353

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.5	99.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110183

Included Lab Sample IDs: 2302376, 2302467

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	76.2	83.3	P/P	60 - 160
AMPA	89.3	96.0	P/P	60 - 160
Endothall	90.4	92.5	P/P	60 - 160
Glufosinate	93.4	92.0	P/P	60 - 160
Glyphosate	78.5	88.7	P/P	60 - 160
Sucralose	78.7	88.5	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110187

Included Lab Sample IDs: 2302379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	104	P/P	90 - 110
Iron	104	104	P/P	90 - 110
Magnesium	104	104	P/P	90 - 110
Strontium	105	104	P/P	90 - 110
Tin	106	105	P/P	90 - 110
Vanadium	105	104	P/P	90 - 110
Zinc	108	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110192

Included Lab Sample IDs: 2302350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110217

Included Lab Sample IDs: 2302379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	102	P/P	90 - 110
Antimony	92.3	95.2	P/P	90 - 110
Arsenic	99.4	100	P/P	90 - 110
Beryllium	96.5	99.5	P/P	90 - 110
Cadmium	96.6	97.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110217

Included Lab Sample IDs: 2302379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	95.8	97.1	P/P	90 - 110
Cobalt	100	101	P/P	90 - 110
Copper	100	101	P/P	90 - 110
Lead	94.3	94.3	P/P	90 - 110
Manganese	95.6	98.4	P/P	90 - 110
Molybdenum	97.0	97.6	P/P	90 - 110
Nickel	102	103	P/P	90 - 110
Selenium	97.7	100	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110225

Included Lab Sample IDs: 2302349, 2302352

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.5	96.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110225

Included Lab Sample IDs: 2302349, 2302352

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110239

Included Lab Sample IDs: 2302350, 2302353

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

Reference Method: EPA 8321B

Run ID: A110243

Included Lab Sample IDs: 2302467

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	111	106	P/P	50 - 150
2,4,5-T	103	100	P/P	50 - 150
Acetaminophen	109	109	P/P	60 - 160
Acetamiprid	103	112	P/P	50 - 150
Afidopyropen	98.2	100	P/P	50 - 150
Bentazon	85.4	105	P/P	50 - 160
Benzovindiflupyr	104	108	P/P	50 - 150
Carbamazepine	95.0	97.0	P/P	60 - 150
Clothianidin	89.8	117	P/P	60 - 150
Dinotefuran	100	104	P/P	50 - 150
Diuron	113	105	P/P	60 - 160
Fenuron	99.7	104	P/P	60 - 150
Fluridone	105	103	P/P	60 - 160
Hydrocodone	102	102	P/P	60 - 150
Ibuprofen	111	61.8	P/P	50 - 160
Imazapyr	107	83.1	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A110243
Included Lab Sample IDs: 2302467

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	93.5	94.2	P/P	60 - 150
Linuron	87.5	91.9	P/P	60 - 150
Mandestrobin	106	106	P/P	50 - 150
MCPP	92.2	82.0	P/P	50 - 150
Naproxen	125	89.6	P/P	50 - 160
Primidone	69.1	115	P/P	60 - 150
Pyraclostrobin	95.4	92.9	P/P	60 - 150
Silvex	107	103	P/P	50 - 150
Thiamethoxam	106	106	P/P	50 - 150
Tolfenpyrad	114	101	P/P	60 - 150
Triclopyr	93.3	89.3	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A110249
Included Lab Sample IDs: 2302379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	96.7	95.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A110280
Included Lab Sample IDs: 2302378, 2302469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	97.7		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	97.8		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	103		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	99.6		P	80 - 120
Caffeine	99.4		P	80 - 120
Carbophenothion	84.6		P	80 - 120
Carfentrazone Ethyl	88.7		P	80 - 120
Chlorfenapyr	103		P	80 - 120
Chlorpyrifos Ethyl	108		P	80 - 120
Chlorpyrifos Methyl	99.1		P	80 - 120
Coumaphos	102		P	80 - 120
Cyanazine	93.4		P	80 - 120
Cyprodinil	95.2		P	80 - 120
Demeton	107		P	80 - 120
Diazinon	109		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.2		P	80 - 120
Ethion	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110280

Included Lab Sample IDs: 2302378, 2302469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	96.7		P	80 - 120
Etridiazole	99.8		P	80 - 120
Fenamiphos	106		P	80 - 120
Fenbuconazole	94.0		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	92.9		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	97.4		P	80 - 120
Fluazifop-P-butyl	92.2		P	80 - 120
Fludioxonil	101		P	80 - 120
Flumioxazin	91.2		P	80 - 120
Flutolanil	95.6		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	99.1		P	80 - 120
Hexazinone	99.7		P	80 - 120
Imazalil	101		P	80 - 120
Iprodione	101		P	80 - 120
Loratadine	109		P	80 - 120
Malathion	102		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	96.3		P	80 - 120
Mevinphos	107		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	104		P	80 - 120
Naled	103		P	80 - 120
Napropamide	97.6		P	80 - 120
Norflurazon	93.8		P	80 - 120
Oxadiazon	99.0		P	80 - 120
Oxyfluorfen	99.1		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	103		P	80 - 120
Pendimethalin	105		P	80 - 120
Phenytoin	98.5		P	80 - 120
Phorate	96.8		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	97.2		P	80 - 120
Pronamide	97.5		P	80 - 120
Propanil	106		P	80 - 120
Propargite	96.5		P	80 - 120
Propiconazole	99.0		P	80 - 120
Pyraflufen Ethyl	92.8		P	80 - 120
Pyridaben	94.5		P	80 - 120
Pyriproxyfen	105		P	80 - 120
Simazine	98.5		P	80 - 120
Stirophos	90.7		P	80 - 120
Sulfentrazone	94.8		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	97.6		P	80 - 120
Terbuthylazine	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110280

Included Lab Sample IDs: 2302378, 2302469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiobencarb	103		P	80 - 120
Triadimefon	104		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110283

Included Lab Sample IDs: 2302350, 2302353

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

Reference Method: EPA 8270E

Run ID: A110295

Included Lab Sample IDs: 2302377, 2302468

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.3		P	80 - 120
Alpha-BHC	98.8		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	96.7		P	80 - 120
Bifenthrin	104		P	80 - 120
Chlorothalonil	92.2		P	80 - 120
Cis-Nonachlor	95.1		P	80 - 120
Cypermethrin	86.4		P	80 - 120
Dacthal	108		P	80 - 120
DDD-p,p'	99.6		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	97.9		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	94.0		P	80 - 120
Dichlobenil	100		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	95.8		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	101		P	80 - 120
Endosulfan Sulfate	96.5		P	80 - 120
Endrin	96.1		P	80 - 120
Endrin Aldehyde	99.0		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	97.4		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	104		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	107		P	80 - 120
Heptachlor	97.5		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	96.9		P	80 - 120
Kepone	55.0*		F	80 - 120
Lambda-Cyhalothrin	105		P	80 - 120
Methoprene	110		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110295

Included Lab Sample IDs: 2302377, 2302468

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	110		P	80 - 120
MGK-264	103		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	97.6		P	80 - 120
Tau-Fluvalinate	98.1		P	80 - 120
Tetramethrin	112		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	98.1		P	80 - 120

Reference Method: EPA 8276

Run ID: A110309

Included Lab Sample IDs: 2302377, 2302468

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.8		P	80 - 120
Toxaphene	98.6		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110372

Included Lab Sample IDs: 2302378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.3		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A110510

Included Lab Sample IDs: 2302350, 2302353

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	93.0	P/P	90 - 110
Organic Carbon	98.7	95.4	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						3.42	
EPA 200.7 Rev. 4.4	Calcium	108						0.411
	Iron	108		107	103			3.08
	Magnesium	107						1.01
	Strontium	104						0.187
	Tin	109		97.4	107			9.16
	Vanadium	99.7		107	108			0.662
	Zinc	110		105	105			0.750
EPA 200.8 Rev. 5.4	Aluminum	103		113	120			6.04
	Antimony	101		96.0	100			4.52
	Arsenic	103		109	114			4.43
	Beryllium	96.0		97.6	98.0			0.420
	Cadmium	102		87.1	92.6			6.17
	Chromium	101		96.8	103			6.60
	Cobalt	102		117	123			5.32
	Copper	99.6		99.0	105			5.21
	Lead	99.3		103	103			0.142
	Manganese	102		94.8	101			6.30
	Molybdenum	101		112	121			5.29
	Nickel	102		114	123			7.06
	Selenium	101		93.5	97.6			4.25
	Silver	103		88.7	94.2			6.07
EPA 350.1 Rev. 2.0	Ammonia-N	99.4		102	102			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.5		102	96.7			4.02
EPA 353.2 Rev. 2.0	NO2NO3-N	100		100	100			0.0
	NO2NO3-N	102		102	102			0.0
EPA 365.1 Rev. 2.0	Total-P	102		98.9	100			1.16
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2		99.7	100			0.558
EPA 8270E	Acetochlor	96.2		78.7	96.7			20.6
	Alachlor	88.6		73.5	88.4			18.5
	Aldrin	46.5	48.9	35.0		4.97		
	Alpha-BHC	91.7	93.8	83.5		2.23		
	Alpha-Chlordane	66.7	68.7	72.7		2.89		
	Ametryn	96.4		82.4	90.6			9.53
	Atrazine	94.2		55.9	102			27.7
	Atrazine Desethyl	50.0		32.5	44.3			30.8
	Azinphos Methyl	82.2		74.0	87.2			16.4
	Azoxystrobin	91.4		77.2	92.6			13.8
	Beta-BHC	99.7	104	66.0		4.55		
	Beta-Cyfluthrin	60.8	46.1	92.6		27.6		
	Bifenthrin	35.0	32.9	76.7		6.09		
	Bromacil	68.6		46.3	64.8			33.2
	Butylate	66.3		49.0	59.8			19.8
	Caffeine	131		97.3	115			13.3
	Carbophenothion	90.5		88.1	88.2			0.0908
	Carfentrazone Ethyl	88.5		72.6	83.5			13.9
	Chlorfenapyr	91.5		88.6	81.9			7.88
	Chlorothalonil	118	94.4	112		22.3		
	Chlorpyrifos Ethyl	111		96.9	110			12.3
	Chlorpyrifos Methyl	97.5		86.5	96.3			10.7
	Cis-Nonachlor	62.0	53.5	63.0		14.6		
	Coumaphos	137		135	152			11.9
	Cyanazine	86.3		73.3	86.8			16.9
	Cypermethrin	50.8	39.0	93.6		26.3		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Cyprodinil	85.9		74.4	90.2			19.2
	Dacthal	93.5	91.4	68.9		2.20		
	DDD-p,p'	60.1	48.8	70.5		20.7		
	DDE-p,p'	72.3	62.8	78.4		14.0		
	DDT-p,p'	79.0	83.3	63.2		5.27		
	Delta-BHC	99.6	102	78.0		2.22		
	Deltamethrin	56.9	39.1	90.2		37.1		
	Demeton	85.5		75.8	90.3			17.5
	Diazinon	108		85.4	104			19.5
	Dichlobenil	90.4	78.9	72.2		13.6		
	Dicofol	67.5	71.7	40.2		6.02		
	Dieldrin	69.0	63.3	72.3		8.69		
	Difenoconazole	89.8		85.0	90.9			6.68
	Dimethenamid	82.6		70.3	86.7			20.9
	Dimethomorph	86.6		75.8	91.2			18.4
	Disulfoton	87.3		78.6	96.5			20.4
	Dithiopyr	101		86.6	93.1			7.19
	Endosulfan I	73.0	77.1	71.9		5.46		
	Endosulfan II	69.9	69.2	60.9		1.04		
	Endosulfan Sulfate	82.6	85.6	42.8		3.55		
	Endrin	67.3	63.9	65.4		5.29		
	Endrin Aldehyde	56.1	42.5	41.6		27.5		
	Endrin Ketone	75.5	63.2	62.0		17.7		
	EPTC	62.6		46.3	55.3			17.7
	Esfenvalerate	55.3	40.2	89.1		31.6		
	Ethalfuralin	66.2	65.1	61.8		1.68		
	Ethion	97.5		92.8	88.1			5.20
	Ethoprop	87.2		78.5	95.9			19.9
	Etridiazole	65.7		52.1	63.0			18.9
	Fenamiphos	107		101	114			11.9
	Fenbuconazole	113		96.7	115			16.9
	Fenpropathrin	47.4	37.1	60.9		24.2		
	Fipronil	96.3		74.1	95.3			21.8
	Fipronil Desulfinyl	90.6		65.2	88.7			23.7
	Fipronil Sulfide	90.2		70.2	88.2			12.1
	Fipronil Sulfone	86.9		70.4	83.7			8.88
	Fluazifop-P-butyl	87.6		79.2	83.7			5.56
	Fludioxonil	92.9		72.6	86.8			17.8
	Flumioxazin	121		127	164			25.9
	Flutolanil	84.7		64.4	85.5			19.1
	Fluxapyroxad	109		88.9	127			32.8
	Fonofos	85.4		72.3	87.7			19.2
	Gamma-BHC	87.9	84.2	81.1		4.37		
	Gamma-Chlordane	60.6	60.2	73.0		0.711		
	Heptachlor	58.9	65.6	53.2		10.7		
	Heptachlor Epoxide	77.3	67.4	60.9		13.7		
	Hexachlorobenzene	56.4	70.9	60.4		22.7		
	Hexazinone	88.3		68.6	90.8			25.0
	Imazalil	79.3		76.7	74.3			3.14
	Iprodione	62.7		58.8	70.2			17.7
	Kepone	138	71.9	76.5		63.0		
	Lambda-Cyhalothrin	50.2	33.4	87.1		40.1		
	Loratadine	76.1		71.5	81.9			13.5
	Malathion	122		116	103			12.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Metalaxyl	84.3		82.5	69.9			16.6
	Methoprene	46.7	29.0	67.6		46.8		
	Methoxychlor	80.7	87.3	72.7		7.87		
	Metolachlor	93.5		87.8	72.0			18.0
	Metribuzin	85.8		74.5	70.5			5.56
	Mevinphos	80.1		82.7	62.0			28.7
	MGK-264	79.6	62.8	75.7		23.6		
	Mirex	45.2	49.1	63.8		8.27		
	Molinate	75.2		77.5	63.4			20.0
	Myclobutanil	91.0		89.0	76.8			14.7
	Naled	90.1		88.7	75.1			16.6
	Napropamide	82.8		80.3	67.1			17.9
	Norflurazon	93.2		91.9	74.4			21.0
	Oxadiazon	80.4		74.7	71.0			5.14
	Oxychlordane	69.1	60.2	60.2		13.7		
	Oxyfluorfen	107		108	102			5.99
	Parathion Ethyl	88.8		80.5	74.0			8.40
	Parathion Methyl	108		108	91.7			16.6
	Pendimethalin	80.5		78.3	72.1			8.24
	Permethrin	58.1	47.1	102		20.8		
	Phenothrin	25.5	21.7	66.7		16.1		
	Phenytol	53.8		66.3	50.1			27.9
	Phorate	97.5		88.9	95.2			6.85
	Piperonyl Butoxide	68.7	50.3	93.9		31.0		
	Prallethrin	67.3	66.9	47.9		0.559		
	Prodiamine	124		117	109			7.15
	Prometon	101		111	95.4			15.5
	Prometryn	82.9		88.8	72.4			20.4
	Pronamide	92.3		54.6	92.9			23.2
	Propanil	100		104	76.2			30.8
	Propargite	127		127	114			11.2
	Propiconazole	101		104	89.9			14.9
	Pyraflufen Ethyl	113		109	96.6			12.5
	Pyridaben	117		117	108			7.44
	Pyriproxyfen	70.1		67.2	64.5			4.09
	Simazine	84.0		87.4	70.6			21.4
	Stirophos	88.0		84.4	78.2			7.59
	Sulfentrazon	59.6						36.8
	Tau-Fluvalinate	38.2	27.4	66.0		33.0		
	Tebuconazole	115		111	86.4			20.3
	Terbufos	105		117	103			12.6
	Terbuthylazine	86.6		89.8	73.9			19.4
	Tetramethrin	62.5	51.9	94.9		18.4		
	Thiobencarb	99.1		96.1	78.5			20.1
	Trans-Nonachlor	66.5	52.3	70.4		23.9		
	Triadimefon	82.3		85.9	63.6			29.8
	Triclosan Methyl	77.0	79.0	60.5		2.51		
	Trifluralin	67.4	61.2	54.9		9.61		
EPA 8276	Chlordane	84.6	78.1	79.2		7.92		
	Toxaphene	66.8	59.8	72.4		11.0		
EPA 8321B	2,4-D	89.2		148	149			0.393
	2,4-D	91.8		96.7	108			7.92
	2,4,5-T	75.5		102	114			11.7
	2,4,5-T	73.8		77.3	77.0			0.436

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	3-Hydroxycarbofuran	79.7	106	86.7			20.0
	Acesulfame K	75.4	111	114			3.32
	Acetaminophen	96.0	125	134			7.07
	Acetaminophen	87.0	93.1	103			10.1
	Acetamiprid	98.2	106	90.2			15.9
	Acetamiprid	94.5	95.7	94.3			1.43
	Afidopyropen	71.9	58.6	51.0			14.0
	Afidopyropen	75.7	37.0	46.4			22.6
	Aldicarb	45.1	82.8	80.8			2.42
	Aldicarb Sulfone	93.7	116	119			2.04
	Aldicarb Sulfoxide	90.8	46.1	60.2			26.5
	AMPA	104	90.2	101			11.1
	Bentazon	105					1.54
	Bentazon	101	62.6	66.8			3.89
	Benzovindiflupyr	93.1	92.0	94.0			2.22
	Benzovindiflupyr	85.1	76.4	95.6			22.3
	Carbamazepine	99.5					1.98
	Carbamazepine	84.1	88.4	89.6			1.35
	Carbaryl	81.3	73.7	76.8			4.15
	Carbofuran	86.3	81.2	87.0			6.98
	Clothianidin	106	150	150			0.548
	Clothianidin	86.7	91.2	103			11.8
	Dinotefuran	105	146	146			0.243
	Dinotefuran	90.6	109	116			5.57
	Diuron	92.4	88.9	84.5			5.16
	Diuron	102	72.3	90.8			22.7
	Endothall	97.4	145	157			8.15
	Fenuron	111	89.8	92.5			2.99
	Fenuron	94.9	83.6	91.1			8.58
	Fluridone	97.5	106	102			2.46
	Fluridone	88.9	78.6	88.9			12.4
	Glufosinate	92.0	91.2	89.6			1.73
	Glyphosate	87.3	70.5	77.8			9.89
	Hydrocodone	115	120	120			0.721
	Hydrocodone	93.5	89.3	75.4			16.9
	Ibuprofen	79.1	71.8	77.6			7.74
	Ibuprofen	80.5	68.3	72.9			6.48
	Imazapyr	149					5.54
	Imazapyr	96.2	80.1	89.8			8.12
	Imidacloprid	91.8					1.01
	Imidacloprid	94.7	140	148			5.35
	Linuron	84.1	76.3	78.5			2.84
	Linuron	76.0	83.3	81.3			2.43
	Mandestrobin	99.1	97.2	98.3			1.10
	Mandestrobin	96.6	88.5	92.8			4.81
	MCPP	108	138	142			2.78
	MCPP	92.2	87.2	115			27.2
	Methiocarb	70.4	68.6	72.8			5.84
	Methomyl	88.6	86.6	90.7			4.63
	Naproxen	98.5	89.4	106			16.5
	Naproxen	60.9	78.5	73.3			6.88
	Oxamyl	95.6	94.1	108			13.4
	Primidone	99.4	133	121			5.78
	Primidone	118	108	109			0.580

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Propoxur	78.6	81.9	91.9			11.5
	Pyraclostrobin	92.4	94.0	97.3			3.49
	Pyraclostrobin	79.5	80.8	91.6			12.4
	Silvex	69.8	102	111			8.67
	Silvex	69.8	67.1	76.3			12.8
	Sucralose	95.1	107	112			4.04
	Thiamethoxam	96.0	159	159			0.436
	Thiamethoxam	91.1	105	115			7.81
	Tolfenpyrad	52.0	54.7	58.9			7.51
	Tolfenpyrad	59.2	43.9	50.5			14.1
	Triclopyr	75.5	110	120			8.70
	Triclopyr	75.3	77.0	70.7			8.55
SM 2320 B-2011	Total Alkalinity	99.6				1.34	
SM 4500 F-C-2011	Fluoride	98.2	97.7	98.3			0.480
SM 5310 B-2011	Organic Carbon	94.5	89.0	90.2			1.12

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2302349
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2302379
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2302379
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2302350, 2302353
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2302350, 2302353
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2302350, 2302353
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2302350, 2302353
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2302351, 2302354
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2302377, 2302468
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2302378, 2302469
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2302377, 2302468
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2302375, 2302466
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2302376, 2302467
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2302349, 2302352
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2302349, 2302352
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2302349, 2302352
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2302350, 2302353

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	01/28/2022			01/28/2022 16:17	Khloe J Berg	2302349
EPA 200.7 Rev. 4.4	01/28/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/02/2022 18:42	Josef B Mick	2302379
	01/28/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/02/2022 18:50	Josef B Mick	2302379
EPA 200.8 Rev. 5.4	01/28/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/03/2022 15:23	Alexander Thompson	2302379
	01/28/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/03/2022 17:08	Alexander Thompson	2302379
	01/28/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/04/2022 12:59	Alexander Thompson	2302379
EPA 350.1 Rev. 2.0	01/28/2022			02/02/2022 14:22	Ping Hua	2302350
	01/28/2022			02/02/2022 14:24	Ping Hua	2302353
EPA 351.2 Rev. 2.0	01/28/2022	02/02/2022 10:16	Alexandra J Mattheus	02/04/2022 10:03	Alexandra J Mattheus	2302350
	01/28/2022	02/02/2022 10:16	Alexandra J Mattheus	02/04/2022 10:07	Alexandra J Mattheus	2302353
EPA 353.2 Rev. 2.0	01/28/2022			02/02/2022 10:24	Beverly Y. Sanders	2302353
	01/28/2022			02/03/2022 09:31	Beverly Y. Sanders	2302350
EPA 365.1 Rev. 2.0	01/28/2022	02/01/2022 11:50	Simonne.V. Calhoun	02/08/2022 11:52	Shengyu Ding	2302350
	01/28/2022	02/01/2022 11:50	Simonne.V. Calhoun	02/08/2022 11:59	Shengyu Ding	2302353
EPA 365.1 Rev. 2.0 dissolved	01/28/2022			01/28/2022 15:17	James L Waggeberby	2302351
	01/28/2022			01/28/2022 15:26	James L Waggeberby	2302354
EPA 8270E	01/28/2022	02/03/2022 08:00	Fe-Val Siddell	02/07/2022 20:47	Michael Poppell	2302378
	01/28/2022	02/03/2022 08:00	Fe-Val Siddell	02/07/2022 21:13	Michael Poppell	2302469
	01/28/2022	02/03/2022 08:00	Fe-Val Siddell	02/11/2022 15:44	Michael Poppell	2302378
	01/28/2022	02/04/2022 08:00	Rasheda Ghaffari	02/08/2022 18:55	Vandana T. Nagar	2302377
	01/28/2022	02/04/2022 08:00	Rasheda Ghaffari	02/08/2022 19:53	Vandana T. Nagar	2302468
EPA 8276	01/28/2022	02/04/2022 08:00	Rasheda Ghaffari	02/09/2022 08:35	Arthur Maknenko	2302377
	01/28/2022	02/04/2022 08:00	Rasheda Ghaffari	02/09/2022 09:30	Arthur Maknenko	2302468
EPA 8321B	01/28/2022	01/28/2022 14:00	Hoor Shaik	02/01/2022 02:28	Juyoung Kim	2302376
	01/28/2022	01/28/2022 14:00	June Rhew	01/29/2022 11:26	Juyoung Kim	2302375
	01/28/2022	01/28/2022 14:00	June Rhew	01/29/2022 12:01	Juyoung Kim	2302466
	01/28/2022	02/01/2022 09:00	Manjita Shrestha	02/01/2022 13:57	Manjita Shrestha	2302376
	01/28/2022	02/01/2022 09:00	Manjita Shrestha	02/01/2022 15:26	Manjita Shrestha	2302467
	01/28/2022	02/01/2022 09:00	Manjita Shrestha	02/01/2022 21:35	Manjita Shrestha	2302376
	01/28/2022	02/01/2022 09:00	Manjita Shrestha	02/01/2022 22:40	Manjita Shrestha	2302467
	01/28/2022	02/03/2022 08:55	Hoor Shaik	02/03/2022 23:30	Juyoung Kim	2302467
SM 2320 B-2011	01/28/2022			02/04/2022 05:29	Dale L. Simmons	2302349
	01/28/2022			02/04/2022 05:42	Dale L. Simmons	2302352
SM 2540 D-2011	01/28/2022			02/01/2022 14:37	Yijie Li	2302349, 2302352
SM 4500 F-C-2011	01/28/2022			02/04/2022 04:15	Dale L. Simmons	2302349
	01/28/2022			02/04/2022 04:21	Dale L. Simmons	2302352
SM 5310 B-2011	01/28/2022			02/19/2022 04:56	Khloe J Berg	2302353
	01/28/2022			02/19/2022 08:23	Khloe J Berg	2302350