

Chemical Analysis Report

CEN-DIST-2023-02-28-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 20**
Request ID: **RQ-2023-02-27-16**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 23-MAR-2023 15:06



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 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: Smith Canal 40M S of St. Johns Pkwy

Collection Date/Time: 02/27/2023 10:46

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390524	EPA 8321B	2,4-D	0.043		ug/L	P426469	
		Acesulfame K	0.31	I	ug/L	P426535	
		2,4,5-T	0.0040	U	ug/L	P426469	
		AMPA	0.85		ug/L	P426535	
		Acetaminophen	0.0080	U	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426535	
		Glufosinate	0.10	U	ug/L	P426535	
		Glyphosate	14		ug/L	P426535	
		Afidopyropen	0.0020	U	ug/L	P426586	RPD
		Bentazon	0.61		ug/L	P426469	
		Sucralose	2.0		ug/L	P426535	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	8.0E-04	U	ug/L	P426469	
		Clothianidin	0.0020	U	ug/L	P426469	
		Dinotefuran	0.0020	U	ug/L	P426469	
		Diuron	0.0020	U	ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	0.0062		ug/L	P426469	
		Imazapyr	0.14		ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.0029	I	ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCPP	0.0038	I	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.0041	I	ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	
		Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	
		Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	
2390530	EPA 200.7 Rev. 4.4	Calcium	42.9		mg/L	P426508	
		Iron	1.10E+03		ug/L	P426508	
		Magnesium	5.27		mg/L	P426508	
		Potassium	3.1		mg/L	P426508	
		Sodium	26.1		mg/L	P426508	
		Strontium	174		ug/L	P426508	
		Tin	3.0	U	ug/L	P426508	
		Titanium	1.3	I	ug/L	P426508	
		Vanadium	2.2	I	ug/L	P426508	
		Zinc	5.0	U	ug/L	P426508	
	EPA 200.8 Rev. 5.4	Aluminum	175		ug/L	P426508	

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390530	EPA 200.8 Rev. 5.4	Antimony	0.12	I	ug/L	P426508	
		Arsenic	1.01		ug/L	P426508	
		Barium	21.1		ug/L	P426508	
		Beryllium	0.017	I	ug/L	P426508	
		Boron	47.9		ug/L	P426508	
		Cadmium	0.020	U	ug/L	P426508	
		Chromium	0.72	I	ug/L	P426508	
		Cobalt	0.153		ug/L	P426508	
		Copper	0.89		ug/L	P426508	
		Lead	0.36	I	ug/L	P426508	
		Manganese	28.9		ug/L	P426508	
		Molybdenum	0.76		ug/L	P426508	
		Nickel	0.72	I	ug/L	P426508	
		Selenium	0.20	U	ug/L	P426508	
		Silver	0.010	U	ug/L	P426508	
		Thallium	0.10	U	ug/L	P426508	
	SM 2340 B-2011	Hardness	129		mg/L	P426508	

Sample Location: Mills Creek @ Park

Collection Date/Time: 02/27/2023 11:11

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390525	EPA 8321B	2,4-D	0.068		ug/L	P426469	
		Acesulfame K	0.10	U	ug/L	P426535	
		2,4,5-T	0.0040	U	ug/L	P426469	
		AMPA	0.28	I	ug/L	P426535	
		Acetaminophen	0.0080	U	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426535	
		Glufosinate	0.10	U	ug/L	P426535	
		Glyphosate	1.1		ug/L	P426535	
		Afidopyropen	0.0020	U	ug/L	P426586	RPD
		Bentazon	0.12		ug/L	P426469	
		Sucralose	3.4		ug/L	P426535	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	0.035		ug/L	P426469	
		Clothianidin	0.019		ug/L	P426469	
		Dinotefuran	0.051		ug/L	P426469	
		Diuron	0.012		ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	8.0E-04	U	ug/L	P426469	
		Imazapyr	0.37		ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.021		ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCPP	0.0047	I	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.061		ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	
		Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	
		Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	
2390531	EPA 200.7 Rev. 4.4	Calcium	57.8		mg/L	P426508	
		Iron	430		ug/L	P426508	
		Magnesium	8.17		mg/L	P426508	
		Potassium	8.9		mg/L	P426508	
		Sodium	64.6		mg/L	P426508	
		Strontium	262		ug/L	P426508	
		Tin	3.0	U	ug/L	P426508	
		Titanium	1.1	I	ug/L	P426508	
		Vanadium	3.0	I	ug/L	P426508	
		Zinc	5.2	I	ug/L	P426508	
	EPA 200.8 Rev. 5.4	Aluminum	183		ug/L	P426508	

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390531	EPA 200.8 Rev. 5.4	Antimony	0.34		ug/L	P426508	
		Arsenic	1.41		ug/L	P426508	
		Barium	17.9		ug/L	P426508	
		Beryllium	0.012	I	ug/L	P426508	
		Boron	170		ug/L	P426508	
		Cadmium	0.020	U	ug/L	P426508	
		Chromium	0.49	I	ug/L	P426508	
		Cobalt	0.137		ug/L	P426508	
		Copper	0.92		ug/L	P426508	
		Lead	0.46		ug/L	P426508	
		Manganese	15.8		ug/L	P426508	
		Molybdenum	4.09		ug/L	P426508	
		Nickel	1.3	I	ug/L	P426508	
		Selenium	0.22	I	ug/L	P426508	
		Silver	0.010	U	ug/L	P426508	
		Thallium	0.10	U	ug/L	P426508	
	SM 2340 B-2011	Hardness	178		mg/L	P426508	

Sample Location: Chub Creek @ Cameron Ave

Collection Date/Time: 02/27/2023 11:55

Field ID: G2CE0270

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390533	EPA 200.7 Rev. 4.4	Calcium	95.5		mg/L	P426508	
		Iron	440		ug/L	P426508	
		Magnesium	37.7		mg/L	P426508	
		Potassium	11.2		mg/L	P426508	
		Sodium	334		mg/L	P426508	
		Strontium	957		ug/L	P426508	
		Tin	30	U	ug/L	P426508	
		Titanium	0.78	I	ug/L	P426508	
		Vanadium	2.0	U	ug/L	P426508	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P426508	
		Aluminum	91		ug/L	P426508	
		Antimony	0.16	I	ug/L	P426508	
		Arsenic	2.83		ug/L	P426508	
		Barium	71.7		ug/L	P426508	
		Beryllium	0.010	U	ug/L	P426508	
		Boron	119		ug/L	P426508	
		Cadmium	0.020	U	ug/L	P426508	
		Chromium	0.61	I	ug/L	P426508	
		Cobalt	0.084		ug/L	P426508	
		Copper	2.96		ug/L	P426508	
		Lead	0.33	I	ug/L	P426508	
		Manganese	51.8		ug/L	P426508	
		Molybdenum	0.73		ug/L	P426508	
		Nickel	0.67	I	ug/L	P426508	
		Selenium	0.24	I	ug/L	P426508	
		Silver	0.010	U	ug/L	P426508	
		Thallium	0.10	U	ug/L	P426508	
	SM 2340 B-2011	Hardness	394		mg/L	P426508	

Sample Location: Phelps Creek 85m N of Lake Mary Blvd

Collection Date/Time: 02/27/2023 12:25

Field ID: G2CE0247

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390523	EPA 8321B	2,4-D	0.0020	U	ug/L	P426469	
		Acesulfame K	0.10	I	ug/L	P426535	
		2,4,5-T	0.0040	U	ug/L	P426469	
		AMPA	0.10	U	ug/L	P426535	
		Acetaminophen	0.017	I	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426535	
		Glufosinate	0.10	U	ug/L	P426535	
		Glyphosate	0.10	U	ug/L	P426535	
		Afidopyropen	0.0020	U	ug/L	P426586	RPD
		Bentazon	0.030		ug/L	P426469	
		Sucralose	0.13		ug/L	P426535	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	8.0E-04	U	ug/L	P426469	
		Clothianidin	0.0020	U	ug/L	P426469	
		Dinotefuran	0.0020	U	ug/L	P426469	
		Diuron	0.0020	U	ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	8.0E-04	U	ug/L	P426469	
		Imazapyr	0.039		ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.0020	U	ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCPP	0.0020	U	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.0040	U	ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	
		Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	
		Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	

Sample Location: Elder Springs Run @ US of Myrtle St

Collection Date/Time: 02/27/2023 13:02

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390526	EPA 8321B	Aldicarb	0.020	UJ	ug/L	P426587	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P426587	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P426587	MS
		Carbaryl	0.0020	U	ug/L	P426587	
		Carbofuran	0.0020	U	ug/L	P426587	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P426587	
		Methiocarb	0.0020	U	ug/L	P426587	
		Methomyl	0.0020	U	ug/L	P426587	
		Oxamyl	0.0020	U	ug/L	P426587	
		Propoxur	0.0020	UJ	ug/L	P426587	MS
2390527		2,4-D	0.0040	I	ug/L	P426469	
		Acesulfame K	0.18	I	ug/L	P426535	
		2,4,5-T	0.0040	U	ug/L	P426469	
		AMPA	0.20	I	ug/L	P426535	
		Acetaminophen	0.0080	U	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426535	
		Glufosinate	0.10	U	ug/L	P426535	
		Glyphosate	1.1		ug/L	P426535	
		Afidopyropen	0.0020	U	ug/L	P426586	RPD
		Bentazon	0.051		ug/L	P426469	
		Sucralose	0.47		ug/L	P426535	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	0.0014	I	ug/L	P426469	
		Clothianidin	0.0020	U	ug/L	P426469	
		Dinotefuran	0.0020	U	ug/L	P426469	
		Diuron	0.0020	U	ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	0.0028	I	ug/L	P426469	
		Imazapyr	0.098		ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.0049	I	ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCPP	0.0020	U	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.0040	U	ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	
		Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	
		Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	
2390528	EPA 8270E	Aldrin	0.66	U	ng/L	P426479	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390528	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P426479	
		Alpha-Chlordane	0.20	U	ng/L	P426479	
		PCB-1016	2.0	U	ng/L	P426479	
		Beta-BHC	0.10	U	ng/L	P426479	
		PCB-1221	2.0	U	ng/L	P426479	
		Beta-Cyfluthrin	1.3	U	ng/L	P426479	
		PCB-1232	2.0	U	ng/L	P426479	
		Bifenthrin	0.51	U	ng/L	P426479	
		PCB-1242	2.0	U	ng/L	P426479	
		PCB-1248	2.0	U	ng/L	P426479	
		Chlorothalonil	3.7	U	ng/L	P426479	
		PCB-1254	2.0	U	ng/L	P426479	
		Cis-Nonachlor	0.20	U	ng/L	P426479	
		PCB-1260	2.0	U	ng/L	P426479	
		Cypermethrin	1.5	U	ng/L	P426479	
		Dacthal	0.15	U	ng/L	P426479	
		DDD-p,p'	0.28	I	ng/L	P426479	
		DDE-p,p'	0.22	I	ng/L	P426479	
		DDT-p,p'	0.25	U	ng/L	P426479	
		Delta-BHC	0.41	U	ng/L	P426479	
		Deltamethrin	1.3	U	ng/L	P426479	
		Dichlobenil	0.25	U	ng/L	P426479	
		Dicofol	1.3	U	ng/L	P426479	
		Dieldrin	0.41	U	ng/L	P426479	
		Endosulfan I	0.41	U	ng/L	P426479	
		Endosulfan II	0.41	U	ng/L	P426479	
		Endosulfan Sulfate	0.30	U	ng/L	P426479	
		Endrin	0.41	U	ng/L	P426479	
		Endrin Aldehyde	0.76	U	ng/L	P426479	
		Endrin Ketone	0.41	U	ng/L	P426479	
		Esfenvalerate	0.76	U	ng/L	P426479	
		Ethalfuralin	0.15	U	ng/L	P426479	
		Fenpropathrin	0.25	U	ng/L	P426479	
		Gamma-BHC	0.13	U	ng/L	P426479	
		Gamma-Chlordane	0.20	U	ng/L	P426479	
		Heptachlor	0.20	U	ng/L	P426479	
		Heptachlor Epoxide	0.25	U	ng/L	P426479	
		Hexachlorobenzene**	1.0	U	ng/L	P426479	
		Kepone	5.1	UJ	ng/L	P426479	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P426479	
		Methoprene	0.76	U	ng/L	P426479	
		Methoxychlor	0.30	U	ng/L	P426479	
		MGK-264	0.20	U	ng/L	P426479	
		Mirex	0.36	U	ng/L	P426479	
		Oxychlordane	0.30	U	ng/L	P426479	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390528	EPA 8270E	Permethrin	1.6	U	ng/L	P426479	
		Phenothrin	0.91	U	ng/L	P426479	
		Piperonyl Butoxide	0.15	U	ng/L	P426479	
		Prallethrin	2.0	U	ng/L	P426479	
		Tau-Fluvalinate	0.25	U	ng/L	P426479	
		Tetramethrin	0.76	UJ	ng/L	P426479	LCS
		Trans-Nonachlor	0.20	U	ng/L	P426479	
		Triclosan Methyl	0.15	U	ng/L	P426479	
		Trifluralin	0.20	U	ng/L	P426479	
		Chlordane	2.0	U	ng/L	P426479	
2390529	EPA 8270E	Toxaphene	15	U	ng/L	P426479	
		Oxybenzone**	10	U	ng/L	P426511	
		Acetochlor	0.20	U	ng/L	P426511	
		Octinoxate**	20	U	ng/L	P426511	
		Alachlor	0.41	U	ng/L	P426511	
		Avobenzone**	100	U	ng/L	P426511	
		Ametryn	1.1	U	ng/L	P426511	
		Atrazine	7.7	J	ng/L	P426511	LCS, MS
		PBDE-47**	4.1	U	ng/L	P426511	
		Atrazine Desethyl	3.6	I	ng/L	P426511	
		PBDE-99**	5.1	U	ng/L	P426511	
		Azinphos Methyl	3.1	U	ng/L	P426511	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P426511	
		Azoxystrobin	0.41	U	ng/L	P426511	
		Bromacil	1.8	I	ng/L	P426511	
		2-Ethylhexyl	12	U	ng/L	P426511	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P426511	
		Dechlorane Plus**	31	U	ng/L	P426511	
		Caffeine**	8.4	I	ng/L	P426511	
		Dechlorane 602**	5.1	U	ng/L	P426511	
		Carbophenothion	0.51	U	ng/L	P426511	
		Dechlorane 603**	4.1	U	ng/L	P426511	
		Carfentrazone Ethyl	0.15	U	ng/L	P426511	
		Hexabromobenzene**	6.1	U	ng/L	P426511	
		Chlorfenapyr	0.31	U	ng/L	P426511	
		PBB-153**	8.2	U	ng/L	P426511	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P426511	
		Pentabromotoluene**	3.1	U	ng/L	P426511	
		Chlorpyrifos Methyl	0.10	U	ng/L	P426511	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P426511	
		Coumaphos	1.1	U	ng/L	P426511	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	56	V	ng/L	P426511	
		Cyanazine	5.1	U	ng/L	P426511	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	4.3	I	ng/L	P426511	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390529	EPA 8270E	Cyprodinil	0.20	U	ng/L	P426511	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P426511	
		Demeton	3.6	U	ng/L	P426511	
		Diazinon	0.13	U	ng/L	P426511	
		Difenoconazole	0.61	U	ng/L	P426511	
		Dimethenamid	0.10	U	ng/L	P426511	
		Dimethomorph	0.31	U	ng/L	P426511	
		Disulfoton	0.61	U	ng/L	P426511	
		Dithiopyr	1.0	U	ng/L	P426511	
		EPTC	0.51	UJ	ng/L	P426511	LCS, RPD
		Ethion	0.31	U	ng/L	P426511	
		Ethoprop	0.13	U	ng/L	P426511	
		Etridiazole	0.10	U	ng/L	P426511	
		Fenamiphos	0.46	U	ng/L	P426511	
		Fenbuconazole	0.51	U	ng/L	P426511	
		Fipronil	0.29	I	ng/L	P426511	
		Fipronil DesulfinyI**	0.40	I	ng/L	P426511	
		Fipronil Sulfide	0.83		ng/L	P426511	
		Fipronil Sulfone	0.94		ng/L	P426511	
		Fluazifop-P-butyl	0.10	U	ng/L	P426511	
		Fludioxonil	0.10	U	ng/L	P426511	
		Flumioxazin	3.1	U	ng/L	P426511	
		Flutolanil	0.10	U	ng/L	P426511	
		Fluxapyroxad	0.26	U	ng/L	P426511	
		Fonofos	0.15	U	ng/L	P426511	RPD
		Hexazinone	0.51	U	ng/L	P426511	MS
		Imazalil	0.66	U	ng/L	P426511	
		Iprodione	0.51	U	ng/L	P426511	
		Loratadine**	0.31	U	ng/L	P426511	
		Malathion	0.36	U	ng/L	P426511	
		Metalaxyl	0.51	U	ng/L	P426511	
		Metolachlor	0.77	U	ng/L	P426511	
		Metribuzin	0.41	UJ	ng/L	P426511	LCS
		Mevinphos	1.0	U	ng/L	P426511	RPD
		Molinate	0.26	U	ng/L	P426511	MS
		Myclobutanil	0.36	U	ng/L	P426511	
		Naled	2.6	U	ng/L	P426511	
		Napropamide	0.71	U	ng/L	P426511	
		Norflurazon	1.0	U	ng/L	P426511	
		Oxadiazon	0.97	I	ng/L	P426511	
		Oxyfluorfen	0.20	U	ng/L	P426511	
		Parathion Ethyl	0.15	UJ	ng/L	P426511	LCS, MS
		Parathion Methyl	0.20	U	ng/L	P426511	
		Pendimethalin	0.77	U	ng/L	P426511	
		Phenytain**	5.4	U	ng/L	P426511	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390529	EPA 8270E	Phorate	0.26	U	ng/L	P426511	
		Prodiamine	0.20	U	ng/L	P426511	
		Prometon	3.1	U	ng/L	P426511	
		Prometryn	0.36	U	ng/L	P426511	
		Pronamide	0.10	U	ng/L	P426511	
		Propanil	0.10	U	ng/L	P426511	
		Propargite	0.82	U	ng/L	P426511	
		Propiconazole	14		ng/L	P426511	
		Pyraflufen Ethyl	0.31	U	ng/L	P426511	
		Pyridaben	1.4	U	ng/L	P426511	
		Pyriproxyfen	0.26	U	ng/L	P426511	
		Simazine	0.26	U	ng/L	P426511	
		Stiropfos	0.41	U	ng/L	P426511	
		Sulfentrazone	8.6		ng/L	P426511	
		Tebuconazole	1.4	U	ng/L	P426511	
		Terbufos	0.20	U	ng/L	P426511	
		Terbuthylazine	0.20	U	ng/L	P426511	MS
		Thiobencarb	0.51	U	ng/L	P426511	
		Triadimefon	0.15	U	ng/L	P426511	
2390532	EPA 200.7 Rev. 4.4	Calcium	33.5		mg/L	P426508	
		Iron	580		ug/L	P426508	
		Magnesium	6.52		mg/L	P426508	
		Potassium	2.7		mg/L	P426508	
		Sodium	41.5		mg/L	P426508	
		Strontium	172		ug/L	P426508	
		Tin	3.0	U	ug/L	P426508	
		Titanium	0.93	I	ug/L	P426508	
		Vanadium	2.0	U	ug/L	P426508	
		Zinc	5.0	U	ug/L	P426508	
	EPA 200.8 Rev. 5.4	Aluminum	113		ug/L	P426508	
		Antimony	0.10	I	ug/L	P426508	
		Arsenic	0.77		ug/L	P426508	
		Barium	19.7		ug/L	P426508	
		Beryllium	0.011	I	ug/L	P426508	
		Boron	39.6		ug/L	P426508	
		Cadmium	0.020	U	ug/L	P426508	
		Chromium	0.62	I	ug/L	P426508	
		Cobalt	0.093		ug/L	P426508	
		Copper	0.59	I	ug/L	P426508	
		Lead	0.24	I	ug/L	P426508	
		Manganese	9.26		ug/L	P426508	
		Molybdenum	0.38	I	ug/L	P426508	
		Nickel	0.50	U	ug/L	P426508	
		Selenium	0.20	U	ug/L	P426508	
		Silver	0.010	U	ug/L	P426508	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390532	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P426508	
	SM 2340 B-2011	Hardness	110		mg/L	P426508	

Ref. Method and Comment:
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: V - Due to the presence of tris(1-chloro-2-propyl) phosphate (TCPP) in both the Method Blank and the sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4**Batch ID: P426508**

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	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: P426508**

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	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
Thallium	0.10	U	ug/L

Reference Method: EPA 8270E**Batch ID: P426479**

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	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426479

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426479

Component	Result	Code	Units
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	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	17	I	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8276

Batch ID: P426479

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P426469

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: P426469**

Component	Result	Code	Units
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	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	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: P426535**

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: P426586**

Component	Result	Code	Units
Afidopyropen	0.0020	U	ug/L

Reference Method: EPA 8321B**Batch ID: P426587**

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P426587

Component	Result	Code	Units
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P426508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	108		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	104		P	85 - 115
Sodium	102		P	85 - 115
Strontium	97.8		P	85 - 115
Tin	101		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P426508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	80 - 120
Antimony	102		P	80 - 120
Arsenic	103		P	80 - 120
Barium	106		P	80 - 120
Beryllium	97.9		P	80 - 120
Boron	101		P	80 - 120
Cadmium	103		P	80 - 120
Chromium	101		P	80 - 120
Cobalt	101		P	80 - 120
Copper	102		P	80 - 120
Lead	99.6		P	80 - 120
Manganese	101		P	80 - 120
Molybdenum	100		P	80 - 120
Nickel	103		P	80 - 120
Selenium	102		P	80 - 120
Silver	100		P	80 - 120
Thallium	104		P	80 - 120

Reference Method: EPA 8270E

Batch ID: P426479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	62.7		P	10 - 92.0
Alpha-BHC	101		P	75 - 107
Alpha-Chlordane	66.4		P	50 - 108
Beta-BHC	107		P	36 - 138
Beta-Cyfluthrin	88.4		P	20 - 161
Bifenthrin	64.9		P	10 - 119
Chlorothalonil	112		P	26 - 186
Cis-Nonachlor	95.5		P	42 - 119
Cypermethrin	111		P	22 - 150
Dacthal	80.6		P	72 - 119
DDD-p,p'	101		P	45 - 107
DDE-p,p'	72.8		P	48 - 106
DDT-p,p'	67.1		P	48 - 110
Delta-BHC	132		P	54 - 140
Deltamethrin	60.8		P	22 - 189

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dichlobenil	71.5		P	36 - 117
Dicofol	53.8		P	46 - 155
Dieldrin	80.0		P	54 - 110
Endosulfan I	84.7		P	59 - 105
Endosulfan II	102		P	51 - 118
Endosulfan Sulfate	103		P	57 - 121
Endrin	78.2		P	10 - 120
Endrin Aldehyde	73.7		P	34 - 118
Endrin Ketone	140		P	69 - 177
Esfenvalerate	102		P	23 - 168
Ethalfuralin	66.2		P	49 - 99.0
Fenpropathrin	57.7		P	34 - 117
Gamma-BHC	93.5		P	72 - 117
Gamma-Chlordane	69.9		P	43 - 106
Heptachlor	84.2		P	41 - 98.0
Heptachlor Epoxide	83.0		P	57 - 106
Hexachlorobenzene	50.6		P	36 - 99.0
Kepone	129		P	16 - 215
Lambda-Cyhalothrin	65.3		P	21 - 177
Methoprene	63.3		P	10 - 119
Methoxychlor	68.0		P	60 - 112
MGK-264	120		P	26 - 122
Mirex	57.5		P	10 - 169
Oxychlordane	76.1		P	43 - 105
PCB-1016	80.5		P	48 - 112
PCB-1260	75.8		P	44 - 118
Permethrin	78.5		P	24 - 148
Phenothrin	75.1		P	10 - 106
Piperonyl Butoxide	133		P	10 - 139
Prallethrin	107		P	17 - 109
Tau-Fluvalinate	69.3		P	13 - 131
Tetramethrin	158		F	10 - 132
Trans-Nonachlor	88.5		P	44 - 106
Triclosan Methyl	80.3		P	59 - 109
Trifluralin	59.3		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.2		P	42 - 162
Acetochlor	89.7		P	69 - 123
Alachlor	70.9		P	65 - 118
Ametryn	92.2		P	58 - 141
Atrazine	59.8		F	73 - 118
Atrazine Desethyl	51.0		P	32 - 125
Avobenzone	113		P	40 - 203
Azinphos Methyl	194		P	36 - 197
Azoxystrobin	77.7		P	58 - 226
Bromacil	75.4		P	48 - 120
Butylate	35.4		P	27 - 85.0
Caffeine	90.7		P	40 - 137

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	63.0		P	54 - 132
Carfentrazone Ethyl	62.0		P	60 - 142
Chlorfenapyr	60.5		P	53 - 117
Chlorpyrifos Ethyl	75.9		P	59 - 116
Chlorpyrifos Methyl	96.6		P	66 - 119
Coumaphos	135		P	11 - 234
Cyanazine	135		P	61 - 248
Cyprodinil	73.0		P	50 - 147
Dechlorane 602	97.8		P	50 - 150
Dechlorane 603	96.4		P	50 - 150
Dechlorane Plus	123		P	47 - 182
Demeton	45.3		P	30 - 138
Diazinon	91.3		P	67 - 126
Difenoconazole	157		P	38 - 205
Dimethenamid	77.6		P	57 - 111
Dimethomorph	37.0		P	16 - 212
Disulfoton	62.6		P	46 - 126
Dithiopyr	69.5		P	62 - 115
EPTC	25.8		F	28 - 80.0
Ethion	61.6		P	24 - 122
Ethoprop	92.5		P	62 - 113
Etridiazole	63.7		P	28 - 92.0
Fenamiphos	89.3		P	57 - 128
Fenbuconazole	113		P	52 - 155
Fipronil	85.6		P	63 - 130
Fipronil Desulfinyl	78.4		P	61 - 130
Fipronil Sulfide	79.5		P	56 - 117
Fipronil Sulfone	60.9		P	52 - 118
Fluazifop-P-butyl	76.0		P	61 - 128
Fludioxonil	80.7		P	59 - 129
Flumioxazin	166		P	30 - 250
Flutolanil	76.3		P	53 - 127
Fluxapyroxad	42.8		P	42 - 132
Fonofos	82.2		P	61 - 110
Hexabromobenzene	131		P	50 - 150
Hexazinone	65.2		P	46 - 139
Imazalil	49.8		P	40 - 139
Iprodione	109		P	40 - 146
Loratadine	24.5		P	10 - 224
Malathion	97.7		P	61 - 135
Metalaxyl	88.0		P	58 - 121
Metolachlor	65.6		P	64 - 118
Metribuzin	41.2		F	45 - 245
Mevinphos	81.1		P	49 - 118
Molinate	44.6		P	42 - 92.0
Myclobutanil	69.3		P	55 - 127
Naled	52.5		P	10 - 114
Napropamide	62.5		P	39 - 121
Norflurazon	76.3		P	55 - 129
Octinoxate	97.4		P	26 - 166
Oxadiazon	67.8		P	54 - 115
Oxybenzone	96.5		P	49 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxyfluorfen	71.9		P	64 - 139
Parathion Ethyl	60.4		F	70 - 111
Parathion Methyl	77.1		P	76 - 136
PBB-153	124		P	50 - 150
PBDE-47	85.7		P	41 - 148
PBDE-99	81.4		P	38 - 147
Pendimethalin	90.7		P	52 - 118
Pentabromotoluene	125		P	50 - 150
Phenytoin	73.9		P	10 - 162
Phorate	70.4		P	40 - 122
Prodiamine	74.7		P	26 - 141
Prometon	82.6		P	54 - 122
Prometryn	72.8		P	61 - 128
Pronamide	85.4		P	72 - 121
Propanil	56.9		P	45 - 144
Propargite	57.0		P	10 - 199
Propiconazole	60.4		P	56 - 127
Pyraflufen Ethyl	72.4		P	56 - 140
Pyridaben	94.5		P	26 - 211
Pyriproxyfen	42.6		P	33 - 194
Simazine	89.0		P	67 - 121
Stiropfos	91.5		P	20 - 142
Sulfentrazone	107		P	21 - 144
Tebuconazole	69.0		P	10 - 122
Terbufos	67.6		P	60 - 129
Terbuthylazine	75.6		P	69 - 113
Tetradecachloro-m-terphenyl	153		P	70 - 200
Thiobencarb	69.2		P	51 - 120
Tri-o-cresyl Phosphate	100		P	49 - 150
Triadimefon	57.0		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	148		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	134		P	70 - 180

Reference Method: EPA 8276

Batch ID: P426479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.0		P	53 - 126
Toxaphene	110		P	56 - 211

Reference Method: EPA 8321B

Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	122		P	40 - 150
2,4,5-T	91.9		P	40 - 150
Acetaminophen	113		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Bentazon	122		P	30 - 150
Benzovindiflupyr	89.4		P	40 - 150
Carbamazepine	85.4		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Clothianidin	87.3		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	81.4		P	40 - 150
Fenuron	91.3		P	40 - 150
Fluridone	77.6		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	81.5		P	40 - 150
Imazapyr	98.5		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	74.9		P	40 - 150
Mandestrobin	85.5		P	40 - 150
MCPP	107		P	40 - 150
Naproxen	110		P	40 - 150
Primidone	91.8		P	40 - 150
Pyraclostrobin	81.1		P	40 - 150
Silvex	106		P	40 - 150
Thiamethoxam	97.0		P	40 - 150
Tolfenpyrad	58.8		P	30 - 150
Triclopyr	106		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426535

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	97.8		P	40 - 150
AMPA	106		P	40 - 150
Endothall	96.7		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	95.9		P	40 - 150
Sucralose	98.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	60.2		P	30 - 150

Reference Method: EPA 8321B

Batch ID: P426587

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.6		P	40 - 150
Aldicarb	93.9		P	30 - 150
Aldicarb Sulfone	94.7		P	40 - 150
Aldicarb Sulfoxide	99.3		P	40 - 150
Carbaryl	90.4		P	40 - 150
Carbofuran	81.5		P	40 - 150
Methiocarb	79.2		P	40 - 150
Methomyl	95.1		P	40 - 150
Oxamyl	91.3		P	40 - 150
Propoxur	82.7		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P426508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390150	Calcium	102		P	80 - 120
2390150	Iron	107	104	P/P	80 - 120
2390150	Magnesium	103		P	80 - 120
2390150	Potassium	103	103	P/P	80 - 120
2390150	Sodium	101	99.7	P/P	80 - 120
2390150	Strontium	95.8	98.2	P/P	80 - 120
2390150	Tin	100	98.2	P/P	80 - 120
2390150	Titanium	103	100	P/P	80 - 120
2390150	Vanadium	103	100	P/P	80 - 120
2390150	Zinc	100	97.7	P/P	80 - 120
2390625	Calcium	107		P	80 - 120
2390625	Iron	108		P	80 - 120
2390625	Magnesium	106		P	80 - 120
2390625	Potassium	112		P	80 - 120
2390625	Sodium	102		P	80 - 120
2390625	Strontium	99.2		P	80 - 120
2390625	Tin	102		P	80 - 120
2390625	Titanium	103		P	80 - 120
2390625	Vanadium	103		P	80 - 120
2390625	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P426508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390150	Aluminum	102	101	P/P	80 - 120
2390150	Antimony	102	103	P/P	80 - 120
2390150	Arsenic	101	102	P/P	80 - 120
2390150	Barium	103	105	P/P	80 - 120
2390150	Beryllium	99.2	97.3	P/P	80 - 120
2390150	Boron	102	102	P/P	80 - 120
2390150	Cadmium	103	103	P/P	80 - 120
2390150	Chromium	102	102	P/P	80 - 120
2390150	Cobalt	97.9	98.2	P/P	80 - 120
2390150	Copper	97.6	98.6	P/P	80 - 120
2390150	Lead	99.4	99.9	P/P	80 - 120
2390150	Manganese	102	103	P/P	80 - 120
2390150	Molybdenum	101	103	P/P	80 - 120
2390150	Nickel	99.4	99.9	P/P	80 - 120
2390150	Selenium	99.7	101	P/P	80 - 120
2390150	Silver	99.0	100	P/P	80 - 120
2390150	Thallium	104	106	P/P	80 - 120
2390625	Aluminum	100		P	80 - 120
2390625	Antimony	104		P	80 - 120
2390625	Arsenic	101		P	80 - 120
2390625	Barium	104		P	80 - 120
2390625	Beryllium	97.7		P	80 - 120
2390625	Boron	103		P	80 - 120
2390625	Cadmium	106		P	80 - 120
2390625	Chromium	98.3		P	80 - 120
2390625	Cobalt	96.8		P	80 - 120
2390625	Copper	96.4		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P426508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390625	Lead	99.9		P	80 - 120
2390625	Manganese	101		P	80 - 120
2390625	Molybdenum	103		P	80 - 120
2390625	Nickel	100		P	80 - 120
2390625	Selenium	98.8		P	80 - 120
2390625	Silver	101		P	80 - 120
2390625	Thallium	105		P	80 - 120

Reference Method: EPA 8270E

Batch ID: P426479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390045	PCB-1016	69.4	66.5	P/P	46 - 111
2390045	PCB-1260	66.3	59.2	P/P	45 - 114
2390375	Aldrin	47.4	48.8	P/P	20 - 82.0
2390375	Alpha-BHC	96.7	81.9	P/P	71 - 109
2390375	Alpha-Chlordane	67.0	58.3	P/P	42 - 106
2390375	Beta-BHC	88.5	85.9	P/P	69 - 180
2390375	Beta-Cyfluthrin	69.3	65.8	P/P	18 - 175
2390375	Bifenthrin	91.7	53.6	P/P	21 - 128
2390375	Chlorothalonil	70.4	68.5	P/P	10 - 300
2390375	Cis-Nonachlor	72.9	95.2	P/P	34 - 106
2390375	Cypermethrin	66.6	62.7	P/P	22 - 158
2390375	Dacthal	80.5	74.3	P/P	54 - 116
2390375	DDD-p,p'	82.8	106	P/P	34 - 107
2390375	DDE-p,p'	70.0	59.6	P/P	33 - 110
2390375	DDT-p,p'	57.4	55.3	P/P	50 - 122
2390375	Delta-BHC	78.4	81.1	P/P	77 - 193
2390375	Deltamethrin	56.8	56.5	P/P	10 - 195
2390375	Dichlobenil	60.3	49.2	P/P	25 - 113
2390375	Dicofol	55.2	45.9	P/P	38 - 247
2390375	Dieldrin	76.8	64.5	P/P	45 - 118
2390375	Endosulfan I	84.2	76.2	P/P	51 - 106
2390375	Endosulfan II	104	94.4	P/P	37 - 122
2390375	Endosulfan Sulfate	106	80.5	P/P	43 - 132
2390375	Endrin	66.7	59.2	P/P	29 - 101
2390375	Endrin Aldehyde	83.9	65.5	P/P	19 - 110
2390375	Endrin Ketone	122	106	P/P	60 - 140
2390375	Esfenvalerate	109	83.3	P/P	26 - 199
2390375	Ethalfuralin	61.2	54.6	P/P	45 - 99.0
2390375	Fenpropathrin	51.7	39.4	P/P	35 - 120
2390375	Gamma-BHC	85.6	82.2	P/P	63 - 128
2390375	Gamma-Chlordane	59.1	53.1	P/P	40 - 104
2390375	Heptachlor	71.8	60.3	P/P	36 - 97.0
2390375	Heptachlor Epoxide	62.9	58.8	P/P	49 - 184
2390375	Hexachlorobenzene	46.2	40.8	P/P	39 - 96.0
2390375	Kepone	114	140	P/P	10 - 217
2390375	Lambda-Cyhalothrin	60.8	47.9	P/P	21 - 193
2390375	Methoprene	65.3	48.2	P/P	20 - 106
2390375	Methoxychlor	62.2	69.4	P/P	53 - 118
2390375	MGK-264	79.3	75.8	P/P	40 - 118
2390375	Mirex	48.6	40.4	P/P	26 - 92.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390375	Oxychlordane	59.0	56.8	P/P	44 - 99.0
2390375	Permethrin	49.6	50.0	P/P	33 - 182
2390375	Phenothrin	91.0	54.6	P/P	10 - 129
2390375	Piperonyl Butoxide	126	142	P/P	10 - 211
2390375	Prallethrin	70.0	62.2	P/P	24 - 113
2390375	Tau-Fluvalinate	90.4	65.9	P/P	14 - 149
2390375	Tetramethrin	76.7	79.3	P/P	17 - 151
2390375	Trans-Nonachlor	82.3	69.8	P/P	42 - 102
2390375	Triclosan Methyl	78.6	74.9	P/P	48 - 108
2390375	Trifluralin	57.7	47.9	P/P	47 - 96.0

Reference Method: EPA 8270E

Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.1	99.1	P/P	26 - 165
2390328	Acetochlor	67.9	83.3	P/P	67 - 124
2390328	Alachlor	66.0	67.3	P/P	60 - 120
2390328	Ametryn	88.3	94.5	P/P	54 - 216
2390328	Atrazine	58.9	65.2	F/F	66 - 128
2390328	Atrazine Desethyl	37.8	49.4	P/P	15 - 122
2390328	Avobenzone	94.1	104	P/P	37 - 178
2390328	Azinphos Methyl	150	162	P/P	40 - 292
2390328	Azoxystrobin	51.6	57.2	P/P	35 - 220
2390328	Bromacil	57.7	78.0	P/P	45 - 127
2390328	Butylate	30.0	41.9	P/P	20 - 83.0
2390328	Caffeine	65.3	98.7	P/P	10 - 194
2390328	Carbophenothion	96.4	103	P/P	57 - 127
2390328	Carfentrazone Ethyl	59.2	61.8	P/P	51 - 141
2390328	Chlorfenapyr	52.9	57.9	P/P	46 - 111
2390328	Chlorpyrifos Ethyl	57.6	67.0	P/P	52 - 120
2390328	Chlorpyrifos Methyl	68.7	71.0	P/P	63 - 119
2390328	Coumaphos	105	123	P/P	10 - 228
2390328	Cyanazine	103	124	P/P	59 - 241
2390328	Cyprodinil	67.3	66.0	P/P	47 - 146
2390328	Dechlorane 602	65.6	71.1	P/P	50 - 150
2390328	Dechlorane 603	60.4	66.3	P/P	50 - 150
2390328	Dechlorane Plus	100	112	P/P	50 - 150
2390328	Demeton	43.9	45.0	P/P	40 - 136
2390328	Diazinon	102	126	P/P	69 - 132
2390328	Difenoconazole	124	141	P/P	57 - 258
2390328	Dimethenamid	54.5	69.6	P/P	54 - 110
2390328	Dimethomorph	35.3	40.4	P/P	28 - 210
2390328	Disulfoton	58.6	68.2	P/P	43 - 133
2390328	Dithiopyr	58.8	62.1	P/P	39 - 116
2390328	EPTC	20.9	37.9	P/P	20 - 78.0
2390328	Ethion	56.3	56.5	P/P	17 - 119
2390328	Ethoprop	75.3	97.7	P/P	66 - 120
2390328	Etridiazole	31.8	41.1	P/P	28 - 96.0
2390328	Fenamiphos	63.7	78.0	P/P	41 - 126
2390328	Fenbuconazole	106	119	P/P	42 - 169
2390328	Fipronil	70.8	75.2	P/P	61 - 132

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	Fipronil Desulfinyl	64.6	77.7	P/P	56 - 132
2390328	Fipronil Sulfide	66.7	70.8	P/P	48 - 119
2390328	Fipronil Sulfone	55.6	55.4	P/P	42 - 131
2390328	Fluazifop-P-butyl	72.4	68.5	P/P	53 - 131
2390328	Fludioxonil	75.6	83.9	P/P	56 - 127
2390328	Flumioxazin	116	144	P/P	19 - 300
2390328	Flutolanil	51.9	67.8	P/P	41 - 127
2390328	Fluxapyroxad	52.9	46.2	P/P	42 - 172
2390328	Fonofos	59.8	81.5	P/P	59 - 113
2390328	Hexabromobenzene	133	140	P/P	50 - 150
2390328	Hexazinone	62.8	60.5	F/F	66 - 122
2390328	Imazalil	37.2	41.0	P/P	21 - 283
2390328	Iprodione	77.3	91.5	P/P	43 - 150
2390328	Loratadine	28.1	26.3	P/P	23 - 201
2390328	Malathion	83.2	88.5	P/P	58 - 136
2390328	Metalaxyl	55.5	70.3	P/P	55 - 120
2390328	Metolachlor	58.6	74.0	P/P	57 - 121
2390328	Metribuzin	64.7	67.1	P/P	58 - 294
2390328	Mevinphos	62.0	83.8	P/P	50 - 126
2390328	Molinate	37.4	50.0	F/P	42 - 93.0
2390328	Myclobutanil	66.4	71.8	P/P	55 - 125
2390328	Naled	41.4	56.9	P/P	18 - 200
2390328	Napropamide	45.8	49.7	P/P	39 - 110
2390328	Norflurazon	61.3	76.7	P/P	48 - 128
2390328	Octinoxate	86.6	99.0	P/P	21 - 159
2390328	Oxadiazon	58.0	58.9	P/P	43 - 112
2390328	Oxybenzone	84.3	99.4	P/P	41 - 142
2390328	Oxyfluorfen	65.2	70.5	P/P	64 - 153
2390328	Parathion Ethyl	51.0	52.9	F/F	69 - 114
2390328	Parathion Methyl	102	111	P/P	79 - 139
2390328	PBB-153	92.0	101	P/P	50 - 150
2390328	PBDE-47	81.2	89.3	P/P	27 - 144
2390328	PBDE-99	78.3	85.4	P/P	18 - 150
2390328	Pendimethalin	85.3	84.1	P/P	50 - 139
2390328	Pentabromotoluene	123	133	P/P	50 - 150
2390328	Phenytoin	67.1	77.8	P/P	10 - 146
2390328	Phorate	55.0	59.1	P/P	54 - 161
2390328	Prodiamine	63.3	68.7	P/P	30 - 161
2390328	Prometon	87.5	77.8	P/P	45 - 134
2390328	Prometryn	50.9	59.7	P/P	45 - 137
2390328	Pronamide	67.0	85.2	P/P	65 - 133
2390328	Propanil	50.2	57.0	P/P	49 - 142
2390328	Propargite	49.1	51.8	P/P	10 - 203
2390328	Propiconazole	53.1	69.2	P/P	38 - 146
2390328	Pyraflufen Ethyl	59.8	78.8	P/P	34 - 153
2390328	Pyridaben	68.3	65.8	P/P	12 - 192
2390328	Pyriproxyfen	51.5	43.2	P/P	33 - 180
2390328	Simazine	104	124	P/P	51 - 157
2390328	Stirophos	73.3	72.6	P/P	10 - 128
2390328	Sulfentrazone	89.8	109	P/P	53 - 186
2390328	Tebuconazole	65.4	71.4	P/P	10 - 133
2390328	Terbufos	98.4	119	P/P	65 - 139

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	Terbutylazine	54.6	70.6	F/P	66 - 117
2390328	Tetradecachloro-m-terphenyl	108	113	P/P	70 - 200
2390328	Thiobencarb	56.9	66.4	P/P	51 - 119
2390328	Tri-o-cresyl Phosphate	88.6	100	P/P	31 - 144
2390328	Triadimefon	48.1	48.9	P/P	48 - 119
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	118	130	P/P	50 - 150
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	126	P/P	50 - 150
2390328	Tris(2-chloroethyl) phosphate (TCEP)	127	143	P/P	70 - 180

Reference Method: EPA 8276

Batch ID: P426479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390045	Chlordane	83.7	76.7	P/P	53 - 126
2390045	Toxaphene	97.8	92.4	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P426469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390647	2,4-D	97.0	110	P/P	40 - 150
2390647	2,4,5-T	98.0	98.3	P/P	40 - 150
2390647	Acetaminophen	114	118	P/P	30 - 150
2390647	Acetamiprid	53.6	59.2	P/P	40 - 150
2390647	Bentazon	78.7	78.8	P/P	30 - 150
2390647	Benzovindiflupyr	75.4	76.0	P/P	40 - 150
2390647	Carbamazepine	58.2	60.3	P/P	40 - 150
2390647	Clothianidin	77.9	81.3	P/P	40 - 150
2390647	Dinotefuran	95.9	96.1	P/P	40 - 150
2390647	Diuron	49.0	48.0	P/P	40 - 150
2390647	Fenuron	56.5	58.0	P/P	40 - 150
2390647	Fluridone	55.8	51.4	P/P	40 - 150
2390647	Hydrocodone	73.8	74.6	P/P	40 - 150
2390647	Ibuprofen	72.2	88.4	P/P	40 - 150
2390647	Imazapyr	98.9	106	P/P	40 - 150
2390647	Imidacloprid	101	106	P/P	40 - 150
2390647	Linuron	62.1	61.3	P/P	40 - 150
2390647	Mandestrobin	68.3	77.1	P/P	40 - 150
2390647	MCP	94.6	103	P/P	40 - 150
2390647	Naproxen	61.4	69.5	P/P	40 - 150
2390647	Primidone	78.9	79.3	P/P	40 - 150
2390647	Pyraclostrobin	70.8	71.2	P/P	40 - 150
2390647	Silvex	103	109	P/P	40 - 150
2390647	Thiamethoxam	84.1	81.4	P/P	40 - 150
2390647	Tolfenpyrad	52.6	51.0	P/P	30 - 150
2390647	Triclopyr	104	104	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390312	Acesulfame K	123	126	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P426535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390312	AMPA	88.2	89.8	P/P	40 - 150
2390312	Endothall	106	106	P/P	40 - 150
2390312	Glufosinate	102	100	P/P	40 - 150
2390312	Glyphosate	96.2	111	P/P	40 - 150
2390312	Sucralose	96.8	98.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391073	Afidopyropen	73.1	39.7	P/P	30 - 150

Reference Method: EPA 8321B
Batch ID: P426587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390526	3-Hydroxycarbofuran	69.2	71.0	P/P	40 - 150
2390526	Aldicarb	38.1	29.8	P/F	30 - 150
2390526	Aldicarb Sulfone	78.5	87.6	P/P	40 - 150
2390526	Aldicarb Sulfoxide	30.8	29.5	F/F	40 - 150
2390526	Carbaryl	53.6	56.4	P/P	40 - 150
2390526	Carbofuran	44.8	44.9	P/P	40 - 150
2390526	Methiocarb	63.2	58.2	P/P	40 - 150
2390526	Methomyl	60.9	60.7	P/P	40 - 150
2390526	Oxamyl	72.8	78.5	P/P	40 - 150
2390526	Propoxur	35.6	40.4	F/P	40 - 150

Quality Assurance Report

Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P426508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390150	Calcium	1.71	Spike	P	0 - 20
2390150	Iron	3.18	Spike	P	0 - 20
2390150	Magnesium	3.70	Spike	P	0 - 20
2390150	Potassium	0.0623	Spike	P	0 - 20
2390150	Sodium	0.478	Spike	P	0 - 20
2390150	Strontium	2.35	Spike	P	0 - 20
2390150	Tin	1.77	Spike	P	0 - 20
2390150	Titanium	2.25	Spike	P	0 - 20
2390150	Vanadium	2.45	Spike	P	0 - 20
2390150	Zinc	2.45	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P426508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390150	Aluminum	1.10	Spike	P	0 - 20
2390150	Antimony	0.985	Spike	P	0 - 20
2390150	Arsenic	1.80	Spike	P	0 - 20
2390150	Barium	1.09	Spike	P	0 - 20
2390150	Beryllium	1.99	Spike	P	0 - 20
2390150	Boron	0.319	Spike	P	0 - 20
2390150	Cadmium	0.407	Spike	P	0 - 20
2390150	Chromium	0.0243	Spike	P	0 - 20
2390150	Cobalt	0.315	Spike	P	0 - 20
2390150	Copper	1.04	Spike	P	0 - 20
2390150	Lead	0.501	Spike	P	0 - 20
2390150	Manganese	0.825	Spike	P	0 - 20
2390150	Molybdenum	1.33	Spike	P	0 - 20
2390150	Nickel	0.524	Spike	P	0 - 20
2390150	Selenium	1.74	Spike	P	0 - 20
2390150	Silver	1.29	Spike	P	0 - 20
2390150	Thallium	1.67	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P426479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390045	PCB-1016	4.34	Spike	P	0 - 32
2390045	PCB-1260	11.2	Spike	P	0 - 31
2390375	Aldrin	2.76	Spike	P	0 - 41
2390375	Alpha-BHC	16.6	Spike	P	0 - 25
2390375	Alpha-Chlordane	13.8	Spike	P	0 - 33
2390375	Beta-BHC	2.88	Spike	P	0 - 36
2390375	Beta-Cyfluthrin	5.27	Spike	P	0 - 42
2390375	Bifenthrin	52.4	Spike	P	0 - 53
2390375	Chlorothalonil	2.76	Spike	P	0 - 71
2390375	Cis-Nonachlor	26.6	Spike	P	0 - 29
2390375	Cypermethrin	6.02	Spike	P	0 - 40
2390375	Dacthal	7.98	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390375	DDD-p,p'	24.9	Spike	P	0 - 39
2390375	DDE-p,p'	16.0	Spike	P	0 - 33
2390375	DDT-p,p'	3.65	Spike	P	0 - 40
2390375	Delta-BHC	3.40	Spike	P	0 - 37
2390375	Deltamethrin	0.483	Spike	P	0 - 100
2390375	Dichlobenil	20.2	Spike	P	0 - 40
2390375	Dicofol	18.4	Spike	P	0 - 31
2390375	Dieldrin	17.5	Spike	P	0 - 27
2390375	Endosulfan I	9.99	Spike	P	0 - 23
2390375	Endosulfan II	9.52	Spike	P	0 - 28
2390375	Endosulfan Sulfate	27.5	Spike	P	0 - 38
2390375	Endrin	11.9	Spike	P	0 - 63
2390375	Endrin Aldehyde	24.6	Spike	P	0 - 60
2390375	Endrin Ketone	14.2	Spike	P	0 - 37
2390375	Esfenvalerate	26.4	Spike	P	0 - 52
2390375	Ethalfuralin	11.4	Spike	P	0 - 23
2390375	Fenpropathrin	27.0	Spike	P	0 - 32
2390375	Gamma-BHC	4.10	Spike	P	0 - 17
2390375	Gamma-Chlordane	10.7	Spike	P	0 - 40
2390375	Heptachlor	17.5	Spike	P	0 - 29
2390375	Heptachlor Epoxide	6.75	Spike	P	0 - 25
2390375	Hexachlorobenzene	12.3	Spike	P	0 - 36
2390375	Kepone	20.0	Spike	P	0 - 93
2390375	Lambda-Cyhalothrin	23.8	Spike	P	0 - 55
2390375	Methoprene	30.0	Spike	P	0 - 53
2390375	Methoxychlor	10.9	Spike	P	0 - 29
2390375	MGK-264	4.52	Spike	P	0 - 35
2390375	Mirex	18.4	Spike	P	0 - 46
2390375	Oxychlordane	3.86	Spike	P	0 - 29
2390375	Permethrin	0.902	Spike	P	0 - 44
2390375	Phenothrin	50.0	Spike	P	0 - 56
2390375	Piperonyl Butoxide	11.7	Spike	P	0 - 100
2390375	Prallethrin	11.7	Spike	P	0 - 42
2390375	Tau-Fluvalinate	31.4	Spike	P	0 - 54
2390375	Tetramethrin	3.41	Spike	P	0 - 51
2390375	Trans-Nonachlor	16.4	Spike	P	0 - 37
2390375	Triclosan Methyl	4.76	Spike	P	0 - 31
2390375	Trifluralin	18.6	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.7	Spike	P	0 - 37
2390328	Acetochlor	20.4	Spike	P	0 - 28
2390328	Alachlor	1.93	Spike	P	0 - 30
2390328	Ametryn	6.81	Spike	P	0 - 32
2390328	Atrazine	10.1	Spike	P	0 - 41
2390328	Atrazine Desethyl	26.7	Spike	P	0 - 36
2390328	Avobenzene	9.86	Spike	P	0 - 36

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	Azinphos Methyl	7.81	Spike	P	0 - 75
2390328	Azoxystrobin	10.3	Spike	P	0 - 39
2390328	Bromacil	30.0	Spike	P	0 - 33
2390328	Butylate	33.3	Spike	P	0 - 44
2390328	Caffeine	39.4	Spike	P	0 - 74
2390328	Carbophenothion	6.44	Spike	P	0 - 25
2390328	Carfentrazone Ethyl	4.32	Spike	P	0 - 27
2390328	Chlorfenapyr	8.91	Spike	P	0 - 24
2390328	Chlorpyrifos Ethyl	15.0	Spike	P	0 - 26
2390328	Chlorpyrifos Methyl	3.36	Spike	P	0 - 26
2390328	Coumaphos	15.8	Spike	P	0 - 28
2390328	Cyanazine	18.6	Spike	P	0 - 48
2390328	Cyprodinil	1.84	Spike	P	0 - 29
2390328	Dechlorane 602	7.93	Spike	P	0 - 30
2390328	Dechlorane 603	9.18	Spike	P	0 - 30
2390328	Dechlorane Plus	11.0	Spike	P	0 - 30
2390328	Demeton	2.28	Spike	P	0 - 33
2390328	Diazinon	20.8	Spike	P	0 - 29
2390328	Difenoconazole	12.6	Spike	P	0 - 34
2390328	Dimethenamid	24.3	Spike	P	0 - 39
2390328	Dimethomorph	13.7	Spike	P	0 - 51
2390328	Disulfoton	15.0	Spike	P	0 - 30
2390328	Dithiopyr	5.44	Spike	P	0 - 26
2390328	EPTC	57.8	Spike	F	0 - 43
2390328	Ethion	0.235	Spike	P	0 - 79
2390328	Ethoprop	26.0	Spike	P	0 - 29
2390328	Etridiazole	25.6	Spike	P	0 - 33
2390328	Fenamiphos	20.2	Spike	P	0 - 40
2390328	Fenbuconazole	11.0	Spike	P	0 - 74
2390328	Fipronil	5.93	Spike	P	0 - 29
2390328	Fipronil Desulfinyl	18.3	Spike	P	0 - 32
2390328	Fipronil Sulfide	5.66	Spike	P	0 - 30
2390328	Fipronil Sulfone	0.429	Spike	P	0 - 33
2390328	Fluazifop-P-butyl	5.55	Spike	P	0 - 38
2390328	Fludioxonil	10.4	Spike	P	0 - 29
2390328	Flumioxazin	21.2	Spike	P	0 - 51
2390328	Flutolanil	22.9	Spike	P	0 - 25
2390328	Fluxapyroxad	13.6	Spike	P	0 - 45
2390328	Fonofos	30.6	Spike	F	0 - 27
2390328	Hexabromobenzene	5.53	Spike	P	0 - 30
2390328	Hexazinone	3.58	Spike	P	0 - 30
2390328	Imazalil	9.85	Spike	P	0 - 100
2390328	Iprodione	16.9	Spike	P	0 - 33
2390328	Loratadine	6.68	Spike	P	0 - 56
2390328	Malathion	6.18	Spike	P	0 - 37
2390328	Metalaxyl	20.6	Spike	P	0 - 40
2390328	Metolachlor	17.8	Spike	P	0 - 29
2390328	Metribuzin	3.78	Spike	P	0 - 45
2390328	Mevinphos	30.0	Spike	F	0 - 29
2390328	Molinate	28.8	Spike	P	0 - 33
2390328	Myclobutanil	7.77	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	Naled	31.6	Spike	P	0 - 37
2390328	Napropamide	8.33	Spike	P	0 - 44
2390328	Norflurazon	22.4	Spike	P	0 - 30
2390328	Octinoxate	13.3	Spike	P	0 - 45
2390328	Oxadiazon	1.57	Spike	P	0 - 28
2390328	Oxybenzone	16.5	Spike	P	0 - 46
2390328	Oxyfluorfen	7.82	Spike	P	0 - 28
2390328	Parathion Ethyl	3.63	Spike	P	0 - 31
2390328	Parathion Methyl	8.57	Spike	P	0 - 29
2390328	PBB-153	9.05	Spike	P	0 - 30
2390328	PBDE-47	9.53	Spike	P	0 - 36
2390328	PBDE-99	8.72	Spike	P	0 - 40
2390328	Pendimethalin	1.31	Spike	P	0 - 33
2390328	Pentabromotoluene	7.46	Spike	P	0 - 30
2390328	Phenytoin	14.9	Spike	P	0 - 100
2390328	Phorate	7.17	Spike	P	0 - 36
2390328	Prodiamine	8.20	Spike	P	0 - 71
2390328	Prometon	11.7	Spike	P	0 - 36
2390328	Prometryn	15.9	Spike	P	0 - 28
2390328	Pronamide	23.9	Spike	P	0 - 24
2390328	Propanil	12.6	Spike	P	0 - 28
2390328	Propargite	5.33	Spike	P	0 - 43
2390328	Propiconazole	26.4	Spike	P	0 - 33
2390328	Pyraflufen Ethyl	27.4	Spike	P	0 - 29
2390328	Pyridaben	3.70	Spike	P	0 - 30
2390328	Pyriproxyfen	17.5	Spike	P	0 - 79
2390328	Simazine	17.9	Spike	P	0 - 29
2390328	Stirophos	0.922	Spike	P	0 - 61
2390328	Sulfentrazone	19.2	Spike	P	0 - 33
2390328	Tebuconazole	8.71	Spike	P	0 - 69
2390328	Terbufos	19.0	Spike	P	0 - 29
2390328	Terbutylazine	25.5	Spike	P	0 - 32
2390328	Tetradecachloro-m-terphenyl	4.74	Spike	P	0 - 30
2390328	Thiobencarb	15.4	Spike	P	0 - 26
2390328	Tri-o-cresyl Phosphate	12.3	Spike	P	0 - 33
2390328	Triadimefon	1.60	Spike	P	0 - 28
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	7.91	Spike	P	0 - 30
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	5.63	Spike	P	0 - 30
2390328	Tris(2-chloroethyl) phosphate (TCEP)	11.6	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P426479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390045	Chlordane	8.69	Spike	P	0 - 25
2390045	Toxaphene	5.66	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P426469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390647	2,4-D	12.5	Spike	P	0 - 30
2390647	2,4,5-T	0.264	Spike	P	0 - 30
2390647	Acetaminophen	3.77	Spike	P	0 - 30
2390647	Acetamiprid	9.88	Spike	P	0 - 30
2390647	Bentazon	0.234	Spike	P	0 - 30
2390647	Benzovindiflupyr	0.827	Spike	P	0 - 30
2390647	Carbamazepine	3.60	Spike	P	0 - 30
2390647	Clothianidin	4.19	Spike	P	0 - 30
2390647	Dinotefuran	0.234	Spike	P	0 - 30
2390647	Diuron	2.07	Spike	P	0 - 30
2390647	Fenuron	2.70	Spike	P	0 - 30
2390647	Fluridone	8.10	Spike	P	0 - 30
2390647	Hydrocodone	1.12	Spike	P	0 - 30
2390647	Ibuprofen	20.2	Spike	P	0 - 30
2390647	Imazapyr	6.28	Spike	P	0 - 30
2390647	Imidacloprid	5.33	Spike	P	0 - 30
2390647	Linuron	1.28	Spike	P	0 - 30
2390647	Mandestrobin	12.1	Spike	P	0 - 30
2390647	MCP	8.21	Spike	P	0 - 30
2390647	Naproxen	12.4	Spike	P	0 - 30
2390647	Primidone	0.572	Spike	P	0 - 30
2390647	Pyraclostrobin	0.485	Spike	P	0 - 30
2390647	Silvex	4.93	Spike	P	0 - 30
2390647	Thiamethoxam	3.22	Spike	P	0 - 30
2390647	Tolfenpyrad	3.12	Spike	P	0 - 30
2390647	Triclopyr	0.455	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390312	Acesulfame K	2.32	Spike	P	0 - 30
2390312	AMPA	1.89	Spike	P	0 - 30
2390312	Endothall	0.705	Spike	P	0 - 30
2390312	Glufosinate	1.67	Spike	P	0 - 30
2390312	Glyphosate	14.3	Spike	P	0 - 30
2390312	Sucralose	1.75	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391073	Afidopyropen	59.2	Spike	F	0 - 30

Reference Method: EPA 8321B

Batch ID: P426587

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

Reference Method: EPA 8321B
Batch ID: P426587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390526	3-Hydroxycarbofuran	2.54	Spike	P	0 - 30
2390526	Aldicarb	24.5	Spike	P	0 - 30
2390526	Aldicarb Sulfone	10.9	Spike	P	0 - 30
2390526	Aldicarb Sulfoxide	4.58	Spike	P	0 - 30
2390526	Carbaryl	5.06	Spike	P	0 - 30
2390526	Carbofuran	0.168	Spike	P	0 - 30
2390526	Methiocarb	8.27	Spike	P	0 - 30
2390526	Methomyl	0.324	Spike	P	0 - 30
2390526	Oxamyl	7.60	Spike	P	0 - 30
2390526	Propoxur	12.5	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2390523
Field Sample ID: G2CE0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	121	P	30 - 160
EPA 8321B	Acetaminophen-d4	140	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.8	P	30 - 160
EPA 8321B	Diuron-d6	47.7	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	119	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.8	P	30 - 160
EPA 8321B	Primidone-d5	84.9	P	30 - 160
EPA 8321B	Sucralose-d6	97.9	P	30 - 160

Lab Sample ID: 2390524
Field Sample ID: G2CE0241

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	131	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.2	P	30 - 160
EPA 8321B	Diuron-d6	52.8	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.9	P	30 - 160
EPA 8321B	Primidone-d5	74.2	P	30 - 160
EPA 8321B	Sucralose-d6	99.9	P	30 - 160

Lab Sample ID: 2390525
Field Sample ID: G2CE0233

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	126	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.4	P	30 - 160
EPA 8321B	Diuron-d6	44.9	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	119	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.3	P	30 - 160
EPA 8321B	Primidone-d5	86.3	P	30 - 160
EPA 8321B	Sucralose-d6	97.8	P	30 - 160

Lab Sample ID: 2390526
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	62.8	P	30 - 160

Lab Sample ID: 2390527
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.4	P	30 - 160
EPA 8321B	Diuron-d6	50.0	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2390527
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.6	P	30 - 160
EPA 8321B	Primidone-d5	88.2	P	30 - 160
EPA 8321B	Sucralose-d6	99.0	P	30 - 160

Lab Sample ID: 2390528
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	86.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	69.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	41.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	64.1	P	30 - 101
EPA 8276	PCNB	87.0	P	48 - 121

Lab Sample ID: 2390529
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	88.9	P	20 - 200
EPA 8270E	Simazine-d10	97.0	P	62 - 142
EPA 8270E	Terbufos-d10	88.8	P	58 - 132
EPA 8270E	Terphenyl-d14	113	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A117773

Included Lab Sample IDs: 2390530, 2390531, 2390532, 2390533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	102	P/P	90 - 110
Aluminum	102	101	P/P	90 - 110
Antimony	101	100	P/P	90 - 110
Antimony	99.9	101	P/P	90 - 110
Arsenic	101	100	P/P	90 - 110
Arsenic	100	98.6	P/P	90 - 110
Barium	101	102	P/P	90 - 110
Barium	102	101	P/P	90 - 110
Beryllium	98.2	96.5	P/P	90 - 110
Beryllium	99.8	98.2	P/P	90 - 110
Boron	102	100	P/P	90 - 110
Boron	99.1	102	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Cadmium	102	100	P/P	90 - 110
Chromium	97.5	95.2	P/P	90 - 110
Chromium	99.3	97.5	P/P	90 - 110
Cobalt	95.8	95.0	P/P	90 - 110
Cobalt	97.9	95.8	P/P	90 - 110
Copper	97.3	97.9	P/P	90 - 110
Copper	98.6	97.3	P/P	90 - 110
Lead	97.9	98.3	P/P	90 - 110
Lead	98.3	97.4	P/P	90 - 110
Manganese	101	95.6	P/P	90 - 110
Manganese	102	101	P/P	90 - 110
Molybdenum	98.8	99.9	P/P	90 - 110
Molybdenum	99.9	97.8	P/P	90 - 110
Nickel	97.5	97.9	P/P	90 - 110
Nickel	99.9	97.5	P/P	90 - 110
Selenium	101	100	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Silver	99.4	99.6	P/P	90 - 110
Silver	99.6	98.7	P/P	90 - 110
Thallium	102	102	P/P	90 - 110
Thallium	102	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117818

Included Lab Sample IDs: 2390523, 2390524, 2390525, 2390527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	104	P/P	60 - 160
Acesulfame K	103	101	P/P	60 - 160
Acesulfame K	104	103	P/P	60 - 160
Sucralose	102	103	P/P	60 - 160
Sucralose	103	107	P/P	60 - 160
Sucralose	107	104	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A117822

Included Lab Sample IDs: 2390523, 2390524, 2390525, 2390527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	109	P/P	60 - 160
AMPA	99.8	109	P/P	60 - 160
Endothall	103	105	P/P	60 - 160
Endothall	105	103	P/P	60 - 160
Glufosinate	94.0	108	P/P	60 - 160
Glufosinate	96.0	94.0	P/P	60 - 160
Glyphosate	101	110	P/P	60 - 160
Glyphosate	91.4	101	P/P	60 - 160
Glyphosate	97.8	91.4	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A117831

Included Lab Sample IDs: 2390528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	88.4		P	80 - 120
Alpha-BHC	92.0		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	112		P	80 - 120
Beta-Cyfluthrin	119		P	80 - 120
Bifenthrin	95.9		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	82.7		P	80 - 120
Cypermethrin	112		P	80 - 120
Dacthal	116		P	80 - 120
DDD-p,p'	82.0		P	80 - 120
DDE-p,p'	91.7		P	80 - 120
DDT-p,p'	98.4		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	94.8		P	80 - 120
Dichlobenil	113		P	80 - 120
Dicofol	90.0		P	80 - 120
Dieldrin	92.4		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	111		P	80 - 120
Endosulfan Sulfate	111		P	80 - 120
Endrin	96.2		P	80 - 120
Endrin Aldehyde	95.0		P	80 - 120
Endrin Ketone	92.8		P	80 - 120
Esfenvalerate	106		P	80 - 120
Ethalfuralin	88.2		P	80 - 120
Fenpropathrin	99.6		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	108		P	80 - 120
Heptachlor	111		P	80 - 120
Heptachlor Epoxide	108		P	80 - 120
Hexachlorobenzene	113		P	80 - 120
Kepone	59.0*		F	80 - 120
Lambda-Cyhalothrin	112		P	80 - 120
Methoprene	105		P	80 - 120
Methoxychlor	88.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117831
Included Lab Sample IDs: 2390528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MGK-264	118		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	111		P	80 - 120
Permethrin	93.8		P	80 - 120
Phenothrin	110		P	80 - 120
Piperonyl Butoxide	83.1		P	80 - 120
Prallethrin	107		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	111		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	106		P	80 - 120
Trifluralin	107		P	80 - 120

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2390523, 2390524, 2390525, 2390527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.1	112	P/P	50 - 150
2,4,5-T	99.8	86.2	P/P	50 - 150
Acetaminophen	126	116	P/P	60 - 160
Acetamiprid	99.0	114	P/P	50 - 150
Bentazon	113	119	P/P	50 - 160
Benzovindiflupyr	104	109	P/P	50 - 150
Carbamazepine	103	110	P/P	60 - 150
Clothianidin	100	103	P/P	60 - 150
Dinotefuran	114	120	P/P	50 - 150
Diuron	114	111	P/P	60 - 160
Fenuron	104	104	P/P	60 - 150
Fluridone	114	111	P/P	60 - 160
Hydrocodone	101	114	P/P	60 - 150
Ibuprofen	60.3	93.8	P/P	50 - 160
Imazapyr	94.8	102	P/P	50 - 150
Imidacloprid	94.5	105	P/P	60 - 150
Linuron	108	103	P/P	60 - 150
Mandestrobin	91.5	99.7	P/P	50 - 150
MCPP	103	96.7	P/P	50 - 150
Naproxen	127	107	P/P	50 - 160
Primidone	86.5	108	P/P	60 - 150
Pyraclostrobin	105	101	P/P	60 - 150
Silvex	88.5	87.4	P/P	50 - 150
Thiamethoxam	105	109	P/P	50 - 150
Tolfenpyrad	99.1	93.5	P/P	60 - 150
Triclopyr	90.7	90.9	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A117850
Included Lab Sample IDs: 2390523, 2390524, 2390525, 2390527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	96.3	82.1	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A117850

Included Lab Sample IDs: 2390523, 2390524, 2390525, 2390527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	123	129	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A117863

Included Lab Sample IDs: 2390526

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	93.0	92.6	P/P	60 - 150
Aldicarb	96.5	110	P/P	60 - 150
Aldicarb Sulfone	97.4	92.3	P/P	50 - 150
Aldicarb Sulfoxide	103	104	P/P	50 - 150
Carbaryl	120	111	P/P	60 - 150
Carbofuran	101	107	P/P	50 - 150
Methiocarb	106	99.7	P/P	50 - 150
Methomyl	105	102	P/P	50 - 150
Oxamyl	99.0	99.7	P/P	50 - 150
Propoxur	107	108	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A117871

Included Lab Sample IDs: 2390528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.7		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 8270E

Run ID: A117885

Included Lab Sample IDs: 2390529

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.3		P	80 - 120
Avobenzone	98.3		P	80 - 120
Dechlorane 602	92.7		P	80 - 120
Dechlorane 603	95.4		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	93.0		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	94.1		P	80 - 120
PBDE-47	97.7		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	95.5		P	80 - 120
Tetradecachloro-m-terphenyl	106		P	80 - 120
Tri-o-cresyl Phosphate	97.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.4		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
 Run ID: A117889
 Included Lab Sample IDs: 2390528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	98.3		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A117951
 Included Lab Sample IDs: 2390529

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	108		P	80 - 120
Alachlor	115		P	80 - 120
Ametryn	112		P	80 - 120
Atrazine	96.2		P	80 - 120
Atrazine Desethyl	97.9		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	99.8		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	119		P	80 - 120
Carfentrazone Ethyl	119		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	113		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	118		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	117		P	80 - 120
Difenoconazole	113		P	80 - 120
Dimethenamid	120		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	108		P	80 - 120
Dithiopyr	114		P	80 - 120
EPTC	103		P	80 - 120
Ethion	108		P	80 - 120
Ethoprop	110		P	80 - 120
Etridiazole	110		P	80 - 120
Fenamiphos	110		P	80 - 120
Fenbuconazole	106		P	80 - 120
Fipronil	111		P	80 - 120
Fipronil Desulfinyl	113		P	80 - 120
Fipronil Sulfide	114		P	80 - 120
Fipronil Sulfone	111		P	80 - 120
Fluazifop-P-butyl	114		P	80 - 120
Fludioxonil	108		P	80 - 120
Flumioxazin	116		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	110		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	94.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117951
Included Lab Sample IDs: 2390529

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iprodione	113		P	80 - 120
Loratadine	92.2		P	80 - 120
Malathion	110		P	80 - 120
Metalaxyl	118		P	80 - 120
Metolachlor	115		P	80 - 120
Metribuzin	94.7		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	105		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	111		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	119		P	80 - 120
Oxadiazon	112		P	80 - 120
Oxyfluorfen	98.5		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	117		P	80 - 120
Pendimethalin	119		P	80 - 120
Phenytoin	109		P	80 - 120
Phorate	94.8		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	95.1		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	109		P	80 - 120
Propanil	112		P	80 - 120
Propargite	114		P	80 - 120
Propiconazole	115		P	80 - 120
Pyraflufen Ethyl	114		P	80 - 120
Pyridaben	98.6		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	103		P	80 - 120
Stirophos	112		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	118		P	80 - 120
Terbufos	113		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	114		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A117956
Included Lab Sample IDs: 2390530, 2390531, 2390532, 2390533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	100	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Magnesium	102	100	P/P	90 - 110
Potassium	101	99.2	P/P	90 - 110
Sodium	95.8	93.5	P/P	90 - 110
Tin	91.9	103	P/P	90 - 110
Titanium	91.4	100	P/P	90 - 110
Vanadium	91.7	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A117956

Included Lab Sample IDs: 2390530, 2390531, 2390532, 2390533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	94.1	105	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A117977

Included Lab Sample IDs: 2390530, 2390531, 2390532, 2390533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	95.4	96.6	P/P	95 - 105
Strontium	96.6	99.7	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 200.7 Rev. 4.4	Calcium	104	102	107				1.71
	Iron	108	107	104	108			3.18
	Magnesium	104	103	106				3.70
	Potassium	104	103	103	112			0.0623
	Sodium	102	101	99.7	102			0.478
	Strontium	97.8	95.8	98.2	99.2			2.35
	Tin	101	100	98.2	102			1.77
	Titanium	103	103	100	103			2.25
	Vanadium	103	103	100	103			2.45
	Zinc	106	100	97.7	102			2.45
EPA 200.8 Rev. 5.4	Aluminum	103	102	101	100			1.10
	Antimony	102	103	104	102			0.985
	Arsenic	103	101	102	101			1.80
	Barium	106	103	105	104			1.09
	Beryllium	97.9	99.2	97.3	97.7			1.99
	Boron	101	102	102	103			0.319
	Cadmium	103	103	103	106			0.407
	Chromium	101	102	102	98.3			0.0243
	Cobalt	101	97.9	98.2	96.8			0.315
	Copper	102	97.6	98.6	96.4			1.04
	Lead	99.6	99.4	99.9	99.9			0.501
	Manganese	101	102	103	101			0.825
	Molybdenum	100	101	103	103			1.33
	Nickel	103	99.4	99.9	100			0.524
	Selenium	102	99.7	101	98.8			1.74
	Silver	100	99.0	100	101			1.29
	Thallium	104	104	106	105			1.67
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.2	89.1	99.1				10.7
EPA 8270E	Acetochlor	89.7	67.9	83.3				20.4
	Alachlor	70.9	66.0	67.3				1.93
	Aldrin	62.7	47.4	48.8				2.76
	Alpha-BHC	101	96.7	81.9				16.6
	Alpha-Chlordane	66.4	67.0	58.3				13.8
	Ametryn	92.2	88.3	94.5				6.81
	Atrazine	59.8	58.9	65.2				10.1
	Atrazine Desethyl	51.0	37.8	49.4				26.7
	Avobenzone	113	94.1	104				9.86
	Azinphos Methyl	194	150	162				7.81
	Azoxystrobin	77.7	51.6	57.2				10.3
	Beta-BHC	107	88.5	85.9				2.88
	Beta-Cyfluthrin	88.4	69.3	65.8				5.27
	Bifenthrin	64.9	91.7	53.6				52.4
	Bromacil	75.4	57.7	78.0				30.0
	Butylate	35.4	30.0	41.9				33.3
	Caffeine	90.7	65.3	98.7				39.4
	Carbophenothion	63.0	96.4	103				6.44
	Carfentrazone Ethyl	62.0	59.2	61.8				4.32
	Chlorfenapyr	60.5	52.9	57.9				8.91
	Chlorothalonil	112	70.4	68.5				2.76
	Chlorpyrifos Ethyl	75.9	57.6	67.0				15.0
	Chlorpyrifos Methyl	96.6	68.7	71.0				3.36
	Cis-Nonachlor	95.5	72.9	95.2				26.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Coumaphos	135	105	123			15.8
	Cyanazine	135	103	124			18.6
	Cypermethrin	111	66.6	62.7			6.02
	Cyprodinil	73.0	67.3	66.0			1.84
	Dacthal	80.6	80.5	74.3			7.98
	DDD-p,p'	101	82.8	106			24.9
	DDE-p,p'	72.8	70.0	59.6			16.0
	DDT-p,p'	67.1	57.4	55.3			3.65
	Dechlorane 602	97.8	65.6	71.1			7.93
	Dechlorane 603	96.4	60.4	66.3			9.18
	Dechlorane Plus	123	100	112			11.0
	Delta-BHC	132	78.4	81.1			3.40
	Deltamethrin	60.8	56.8	56.5			0.483
	Demeton	45.3	43.9	45.0			2.28
	Diazinon	91.3	102	126			20.8
	Dichlobenil	71.5	60.3	49.2			20.2
	Dicofol	53.8	55.2	45.9			18.4
	Dieldrin	80.0	76.8	64.5			17.5
	Difenoconazole	157	124	141			12.6
	Dimethenamid	77.6	54.5	69.6			24.3
	Dimethomorph	37.0	35.3	40.4			13.7
	Disulfoton	62.6	58.6	68.2			15.0
	Dithiopyr	69.5	58.8	62.1			5.44
	Endosulfan I	84.7	84.2	76.2			9.99
	Endosulfan II	102	104	94.4			9.52
	Endosulfan Sulfate	103	106	80.5			27.5
	Endrin	78.2	66.7	59.2			11.9
	Endrin Aldehyde	73.7	83.9	65.5			24.6
	Endrin Ketone	140	122	106			14.2
	EPTC	25.8	20.9	37.9			57.8
	Esfenvalerate	102	109	83.3			26.4
	Ethalfuralin	66.2	61.2	54.6			11.4
	Ethion	61.6	56.3	56.5			0.235
	Ethoprop	92.5	75.3	97.7			26.0
	Etridiazole	63.7	31.8	41.1			25.6
	Fenamiphos	89.3	63.7	78.0			20.2
	Fenbuconazole	113	106	119			11.0
	Fenpropathrin	57.7	51.7	39.4			27.0
	Fipronil	85.6	70.8	75.2			5.93
	Fipronil Desulfinyl	78.4	64.6	77.7			18.3
	Fipronil Sulfide	79.5	66.7	70.8			5.66
	Fipronil Sulfone	60.9	55.6	55.4			0.429
	Fluazifop-P-butyl	76.0	72.4	68.5			5.55
	Fludioxonil	80.7	75.6	83.9			10.4
	Flumioxazin	166	116	144			21.2
	Flutolanil	76.3	51.9	67.8			22.9
	Fluxapyroxad	42.8	52.9	46.2			13.6
	Fonofos	82.2	59.8	81.5			30.6
	Gamma-BHC	93.5	85.6	82.2			4.10
	Gamma-Chlordane	69.9	59.1	53.1			10.7
	Heptachlor	84.2	71.8	60.3			17.5
	Heptachlor Epoxide	83.0	62.9	58.8			6.75
	Hexabromobenzene	131	133	140			5.53
	Hexachlorobenzene	50.6	46.2	40.8			12.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Hexazinone	65.2	62.8	60.5		3.58
	Imazalil	49.8	37.2	41.0		9.85
	Iprodione	109	77.3	91.5		16.9
	Kepone	129	114	140		20.0
	Lambda-Cyhalothrin	65.3	60.8	47.9		23.8
	Loratadine	24.5	28.1	26.3		6.68
	Malathion	97.7	83.2	88.5		6.18
	Metalaxyl	88.0	55.5	70.3		20.6
	Methoprene	63.3	65.3	48.2		30.0
	Methoxychlor	68.0	62.2	69.4		10.9
	Metolachlor	65.6	58.6	74.0		17.8
	Metribuzin	41.2	64.7	67.1		3.78
	Mevinphos	81.1	62.0	83.8		30.0
	MGK-264	120	79.3	75.8		4.52
	Mirex	57.5	48.6	40.4		18.4
	Molinate	44.6	37.4	50.0		28.8
	Myclobutanil	69.3	66.4	71.8		7.77
	Naled	52.5	41.4	56.9		31.6
	Napropamide	62.5	45.8	49.7		8.33
	Norflurazon	76.3	61.3	76.7		22.4
	Octinoxate	97.4	86.6	99.0		13.3
	Oxadiazon	67.8	58.0	58.9		1.57
	Oxybenzone	96.5	84.3	99.4		16.5
	Oxychlordane	76.1	59.0	56.8		3.86
	Oxyfluorfen	71.9	65.2	70.5		7.82
	Parathion Ethyl	60.4	51.0	52.9		3.63
	Parathion Methyl	77.1	102	111		8.57
	PBB-153	124	92.0	101		9.05
	PBDE-47	85.7	81.2	89.3		9.53
	PBDE-99	81.4	78.3	85.4		8.72
	PCB-1016	80.5	69.4	66.5		4.34
	PCB-1260	75.8	66.3	59.2		11.2
	Pendimethalin	90.7	85.3	84.1		1.31
	Pentabromotoluene	125	123	133		7.46
	Permethrin	78.5	49.6	50.0		0.902
	Phenothrin	75.1	91.0	54.6		50.0
	Phenytol	73.9	67.1	77.8		14.9
	Phorate	70.4	55.0	59.1		7.17
	Piperonyl Butoxide	133	126	142		11.7
	Prallethrin	107	70.0	62.2		11.7
	Prodiamine	74.7	63.3	68.7		8.20
	Prometon	82.6	87.5	77.8		11.7
	Prometryn	72.8	50.9	59.7		15.9
	Pronamide	85.4	67.0	85.2		23.9
	Propanil	56.9	50.2	57.0		12.6
	Propargite	57.0	49.1	51.8		5.33
	Propiconazole	60.4	53.1	69.2		26.4
	Pyraflufen Ethyl	72.4	59.8	78.8		27.4
	Pyridaben	94.5	68.3	65.8		3.70
	Pyriproxyfen	42.6	51.5	43.2		17.5
	Simazine	89.0	104	124		17.9
	Stirophos	91.5	73.3	72.6		0.922
	Sulfentrazone	107	89.8	109		19.2
	Tau-Fluvalinate	69.3	90.4	65.9		31.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tebuconazole	69.0	65.4	71.4			8.71
	Terbufos	67.6	98.4	119			19.0
	Terbutylazine	75.6	54.6	70.6			25.5
	Tetradecachloro-m-terphenyl	153	108	113			4.74
	Tetramethrin	158	76.7	79.3			3.41
	Thiobencarb	69.2	56.9	66.4			15.4
	Trans-Nonachlor	88.5	82.3	69.8			16.4
	Tri-o-cresyl Phosphate	100	88.6	100			12.3
	Triadimefon	57.0	48.1	48.9			1.60
	Triclosan Methyl	80.3	78.6	74.9			4.76
	Trifluralin	59.3	57.7	47.9			18.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	148	118	130			7.91
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127	119	126			5.63
	Tris(2-chloroethyl) phosphate (TCEP)	134	127	143			11.6
EPA 8276	Chlordane	97.0	83.7	76.7			8.69
	Toxaphene	110	97.8	92.4			5.66
EPA 8321B	2,4-D	122	97.0	110			12.5
	2,4,5-T	91.9	98.0	98.3			0.264
	3-Hydroxycarbofuran	82.6	69.2	71.0			2.54
	Acesulfame K	97.8	123	126			2.32
	Acetaminophen	113	114	118			3.77
	Acetamiprid	88.1	53.6	59.2			9.88
	Afidopyropen	60.2	73.1	39.7			59.2
	Aldicarb	93.9	38.1	29.8			24.5
	Aldicarb Sulfone	94.7	78.5	87.6			10.9
	Aldicarb Sulfoxide	99.3	30.8	29.5			4.58
	AMPA	106	88.2	89.8			1.89
	Bentazon	122	78.7	78.8			0.234
	Benzovindiflupyr	89.4	75.4	76.0			0.827
	Carbamazepine	85.4	58.2	60.3			3.60
	Carbaryl	90.4	53.6	56.4			5.06
	Carbofuran	81.5	44.8	44.9			0.168
	Clothianidin	87.3	77.9	81.3			4.19
	Dinotefuran	108	95.9	96.1			0.234
	Diuron	81.4	49.0	48.0			2.07
	Endothall	96.7	106	106			0.705
	Fenuron	91.3	56.5	58.0			2.70
	Fluridone	77.6	55.8	51.4			8.10
	Glufosinate	105	102	100			1.67
	Glyphosate	95.9	96.2	111			14.3
	Hydrocodone	86.6	73.8	74.6			1.12
	Ibuprofen	81.5	72.2	88.4			20.2
	Imazapyr	98.5	98.9	106			6.28
	Imidacloprid	104	101	106			5.33
	Linuron	74.9	62.1	61.3			1.28
	Mandestrobin	85.5	68.3	77.1			12.1
	MCPP	107	94.6	103			8.21
	Methiocarb	79.2	63.2	58.2			8.27
	Methomyl	95.1	60.9	60.7			0.324
	Naproxen	110	61.4	69.5			12.4
	Oxamyl	91.3	72.8	78.5			7.60

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Primidone	91.8	78.9	79.3			0.572
	Propoxur	82.7	35.6	40.4			12.5
	Pyraclostrobin	81.1	70.8	71.2			0.485
	Silvex	106	103	109			4.93
	Sucralose	98.4	96.8	98.6			1.75
	Thiamethoxam	97.0	84.1	81.4			3.22
	Tolfenpyrad	58.8	52.6	51.0			3.12
	Triclopyr	106	104	104			0.455

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2390530, 2390531, 2390532, 2390533
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2390530, 2390531, 2390532, 2390533
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2390529
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2390528
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2390529
EPA 8270E	PCBs in water matrices by GC/MS/MS	2390528
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2390528
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2390526
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2390523, 2390524, 2390525, 2390527
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2390530, 2390531, 2390532, 2390533

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/10/2023 21:09	McKinley C Carter	2390530
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/10/2023 21:17	McKinley C Carter	2390531
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/10/2023 21:25	McKinley C Carter	2390532
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/10/2023 21:32	McKinley C Carter	2390533
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/10/2023 21:40	McKinley C Carter	2390533
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/14/2023 12:10	Chase Roberts	2390530
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/14/2023 12:22	Chase Roberts	2390531
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/14/2023 12:25	Chase Roberts	2390532
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/14/2023 12:27	Chase Roberts	2390533
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/02/2023 16:36	Conrad Hartmann	2390530
EPA 200.8 Rev. 5.4	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/02/2023 16:45	Conrad Hartmann	2390531
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/02/2023 16:54	Conrad Hartmann	2390532
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/02/2023 17:48	Conrad Hartmann	2390533
EPA 8270E	02/28/2023	03/02/2023 08:00	Fe-Val Siddell	03/04/2023 03:49	Julie Wi	2390528
	02/28/2023	03/02/2023 08:00	Fe-Val Siddell	03/09/2023 02:47	Julie Wi	2390528
	02/28/2023	03/06/2023 08:00	Fe-Val Siddell	03/08/2023 19:20	Arthur Maknenko	2390529
	02/28/2023	03/06/2023 08:00	Fe-Val Siddell	03/08/2023 22:41	Michael Poppell	2390529
EPA 8276	02/28/2023	03/02/2023 08:00	Fe-Val Siddell	03/07/2023 12:42	Lipi Saha	2390528
EPA 8321B	02/28/2023	03/01/2023 09:00	Hoor Shaik	03/01/2023 21:32	Juyoung Kim	2390523
	02/28/2023	03/01/2023 09:00	Hoor Shaik	03/01/2023 21:50	Juyoung Kim	2390524
	02/28/2023	03/01/2023 09:00	Hoor Shaik	03/01/2023 22:09	Juyoung Kim	2390525
	02/28/2023	03/01/2023 09:00	Hoor Shaik	03/01/2023 22:28	Juyoung Kim	2390527
	02/28/2023	03/01/2023 09:00	Hoor Shaik	03/03/2023 20:48	Juyoung Kim	2390524
	02/28/2023	03/01/2023 09:00	Hoor Shaik	03/03/2023 21:07	Juyoung Kim	2390525
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 12:30	Manjita Shrestha	2390523
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 12:43	Manjita Shrestha	2390524
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 13:09	Manjita Shrestha	2390525
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 13:22	Manjita Shrestha	2390527
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 17:05	Manjita Shrestha	2390524
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 23:05	Manjita Shrestha	2390523
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 23:19	Manjita Shrestha	2390524
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/04/2023 00:01	Manjita Shrestha	2390527
	02/28/2023	03/03/2023 08:00	Manjita Shrestha	03/04/2023 03:31	Manjita Shrestha	2390525
	02/28/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 04:01	Juyoung Kim	2390523
	02/28/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 04:19	Juyoung Kim	2390524
	02/28/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 04:38	Juyoung Kim	2390525
	02/28/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 04:57	Juyoung Kim	2390527
	02/28/2023	03/06/2023 09:00	Hoor Shaik	03/07/2023 16:25	Juyoung Kim	2390526
SM 2340 B-2011	02/28/2023			03/10/2023 21:09	McKinley C Carter	2390530
	02/28/2023			03/10/2023 21:17	McKinley C Carter	2390531

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340 B-2011	02/28/2023			03/10/2023 21:25	McKinley C Carter	2390532
	02/28/2023			03/10/2023 21:32	McKinley C Carter	2390533