

Chemical Analysis Report

CEN-DIST-2023-04-13-04

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

Event Description: **Run 20**
Request ID: **RQ-2023-04-10-22**
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: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 05-MAY-2023 12:17



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: PHELPS CREEK 85M N OF LAKE MARY BLVD Collection Date/Time: 04/12/2023 11:21

Field ID: G2CE0247

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400273	EPA 8321B	2,4-D	0.0026	I	ug/L	P428433	
		Acesulfame K	0.10	U	ug/L	P428312	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	10	U	ug/L	P428312	
		Acetaminophen	0.0080	U	ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428312	
		Glufosinate	10	U	ug/L	P428312	
		Glyphosate	10	U	ug/L	P428312	
		Afidopyropen	0.0020	U	ug/L	P428433	
		Bentazon	0.015		ug/L	P428433	
		Sucralose	1.5		ug/L	P428312	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	8.0E-04	U	ug/L	P428433	
		Clothianidin	0.0020	U	ug/L	P428433	
		Dinotefuran	0.0020	U	ug/L	P428433	
		Diuron	0.0020	U	ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	MS
		Fluridone	8.0E-04	U	ug/L	P428433	
		Imazapyr	0.40		ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.0020	U	ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCPP	0.0020	U	ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.0040	U	ug/L	P428433	
		Pyraclostrobin	0.0020	U	ug/L	P428433	
		Silvex	0.0040	U	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	
		Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	

Ref. Method and Comment:

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

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

Sample Location: MILLS CREEK AT PARK

Collection Date/Time: 04/12/2023 12:17

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400274	EPA 8321B	2,4-D	0.041		ug/L	P428433	
		Acesulfame K	0.13	I	ug/L	P428312	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	0.27	I	ug/L	P428312	
		Acetaminophen	0.0080	U	ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428312	
		Glufosinate	0.10	U	ug/L	P428312	
		Glyphosate	0.69		ug/L	P428312	
		Afidopyropen	0.0020	U	ug/L	P428433	
		Bentazon	0.18		ug/L	P428433	
		Sucralose	18		ug/L	P428312	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	0.021		ug/L	P428433	
		Clothianidin	0.0076	I	ug/L	P428433	
		Dinotefuran	0.018		ug/L	P428433	
		Diuron	0.011		ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	MS
		Fluridone	8.0E-04	U	ug/L	P428433	
		Imazapyr	0.41		ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.0075	I	ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCPP	0.0065	I	ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.043		ug/L	P428433	
		Pyraclostrobin	0.0020	U	ug/L	P428433	
		Silvex	0.0040	U	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	
		Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	
2400280	EPA 200.7 Rev. 4.4	Calcium	58.5		mg/L	P428501	
		Iron	870		ug/L	P428501	
		Magnesium	7.91		mg/L	P428501	
		Potassium	6.7		mg/L	P428501	
		Sodium	60.6		mg/L	P428501	
		Strontium	306		ug/L	P428501	
		Tin	3.0	U	ug/L	P428501	
		Titanium	1.4	I	ug/L	P428501	
		Vanadium	3.8	I	ug/L	P428501	
		Zinc	6.0	I	ug/L	P428501	
	EPA 200.8 Rev. 5.4	Aluminum	170		ug/L	P428501	

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400280	EPA 200.8 Rev. 5.4	Antimony	0.33		ug/L	P428501	
		Arsenic	1.49		ug/L	P428501	
		Barium	22.6		ug/L	P428501	
		Beryllium	0.015	I	ug/L	P428501	
		Boron	125		ug/L	P428501	
		Cadmium	0.020	U	ug/L	P428501	
		Chromium	0.69	I	ug/L	P428501	
		Cobalt	0.115		ug/L	P428501	
		Copper	1.22		ug/L	P428501	
		Lead	0.91		ug/L	P428501	
		Manganese	23.0		ug/L	P428501	
		Molybdenum	3.48		ug/L	P428501	
		Nickel	1.2	I	ug/L	P428501	
		Selenium	0.20	U	ug/L	P428501	
		Silver	0.010	U	ug/L	P428501	
		Thallium	0.10	U	ug/L	P428501	
	SM 2340 B-2011	Hardness	179		mg/L	P428501	

Ref. Method and Comment:
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: CHUB CREEK AT CAMERON AVE

Collection Date/Time: 04/12/2023 11:49

Field ID: G2CE0270

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400283	EPA 200.7 Rev. 4.4	Calcium	96.0		mg/L	P428501	
		Iron	350		ug/L	P428501	
		Magnesium	47.0		mg/L	P428501	
		Potassium	14.3		mg/L	P428501	
		Sodium	443		mg/L	P428501	
		Strontium	1.19E+03		ug/L	P428501	
		Tin	3.0	U	ug/L	P428501	
		Titanium	0.89	I	ug/L	P428501	
		Vanadium	2.0	U	ug/L	P428501	
		Zinc	5.0	U	ug/L	P428501	
	EPA 200.8 Rev. 5.4	Aluminum	95		ug/L	P428501	
		Antimony	0.22		ug/L	P428501	
		Arsenic	3.36		ug/L	P428501	
		Barium	82.2		ug/L	P428501	
		Beryllium	0.010	U	ug/L	P428501	
		Boron	137		ug/L	P428501	
		Cadmium	0.020	U	ug/L	P428501	
		Chromium	0.40	I	ug/L	P428501	
		Cobalt	0.069	I	ug/L	P428501	
		Copper	2.79		ug/L	P428501	
		Lead	0.36	I	ug/L	P428501	
		Manganese	47.5		ug/L	P428501	
		Molybdenum	0.77		ug/L	P428501	
		Nickel	0.50	U	ug/L	P428501	
		Selenium	0.20	U	ug/L	P428501	
		Silver	0.010	U	ug/L	P428501	
		Thallium	0.10	U	ug/L	P428501	
	SM 2340 B-2011	Hardness	433		mg/L	P428501	

Sample Location: SMITH CANAL 40M S OF ST JOHNS PKWY

Collection Date/Time: 04/12/2023 12:37

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400275	EPA 8321B	2,4-D	0.095		ug/L	P428433	
		Acesulfame K	0.15	I	ug/L	P428312	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	0.88		ug/L	P428312	
		Acetaminophen	0.0080	U	ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428312	
		Glufosinate	0.10	U	ug/L	P428312	
		Glyphosate	5.5		ug/L	P428312	
		Afidopyropen	0.0020	U	ug/L	P428433	
		Bentazon	0.18		ug/L	P428433	
		Sucralose	1.4		ug/L	P428312	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	0.0012	I	ug/L	P428433	
		Clothianidin	0.0020	U	ug/L	P428433	
		Dinotefuran	0.0020	U	ug/L	P428433	
		Diuron	0.0020	U	ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	MS
		Fluridone	0.0049		ug/L	P428433	
		Imazapyr	0.060		ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.0025	I	ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCPP	0.011		ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.0040	U	ug/L	P428433	
		Pyraclostrobin	0.0020	U	ug/L	P428433	
		Silvex	0.0040	U	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	
		Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	
2400281	EPA 200.7 Rev. 4.4	Calcium	45.4		mg/L	P428501	
		Iron	490		ug/L	P428501	
		Magnesium	5.36		mg/L	P428501	
		Potassium	4.0		mg/L	P428501	
		Sodium	23.6		mg/L	P428501	
		Strontium	220		ug/L	P428501	
		Tin	3.0	U	ug/L	P428501	
		Titanium	0.77	I	ug/L	P428501	
		Vanadium	2.2	I	ug/L	P428501	
		Zinc	5.0	U	ug/L	P428501	
	EPA 200.8 Rev. 5.4	Aluminum	87		ug/L	P428501	

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400281	EPA 200.8 Rev. 5.4	Antimony	0.28		ug/L	P428501	
		Arsenic	1.27		ug/L	P428501	
		Barium	18.5		ug/L	P428501	
		Beryllium	0.010	U	ug/L	P428501	
		Boron	54.3		ug/L	P428501	
		Cadmium	0.020	U	ug/L	P428501	
		Chromium	0.54	I	ug/L	P428501	
		Cobalt	0.104		ug/L	P428501	
		Copper	0.96		ug/L	P428501	
		Lead	0.22	I	ug/L	P428501	
		Manganese	13.3		ug/L	P428501	
		Molybdenum	1.58		ug/L	P428501	
		Nickel	0.67	I	ug/L	P428501	
		Selenium	0.20	U	ug/L	P428501	
		Silver	0.010	U	ug/L	P428501	
		Thallium	0.10	U	ug/L	P428501	
	SM 2340 B-2011	Hardness	135		mg/L	P428501	

Ref. Method and Comment:
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: ELDER SPRINGS RUN AT US OF MYRTLE ST Collection Date/Time: 04/12/2023 10:40

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400276	EPA 8321B	Aldicarb	0.020	U	ug/L	P428314	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P428314	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P428314	
		Carbaryl	0.0020	U	ug/L	P428314	
		Carbofuran	0.0020	U	ug/L	P428314	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P428314	
		Methiocarb	0.0020	U	ug/L	P428314	
		Methomyl	0.0020	U	ug/L	P428314	
		Oxamyl	0.0020	U	ug/L	P428314	
		Propoxur	0.0020	U	ug/L	P428314	
2400277		2,4-D	0.16		ug/L	P428433	MS
		Acesulfame K	0.19	I	ug/L	P428312	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	0.49		ug/L	P428312	
		Acetaminophen	0.0080	U	ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428312	
		Glufosinate	0.10	U	ug/L	P428312	
		Glyphosate	1.8		ug/L	P428312	
		Afidopyropen	0.0020	U	ug/L	P428433	
		Bentazon	0.060		ug/L	P428433	
		Sucralose	0.61		ug/L	P428312	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	0.0038		ug/L	P428433	
		Clothianidin	0.0020	U	ug/L	P428433	
		Dinotefuran	0.0020	U	ug/L	P428433	
		Diuron	0.0020	U	ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	
		Fluridone	0.0013	I	ug/L	P428433	
		Imazapyr	0.024		ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.025		ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCP	0.0041	I	ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.015	I	ug/L	P428433	
		Pyraclostrobin	0.0020	U	ug/L	P428433	
		Silvex	0.0040	U	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	
		Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	
2400278	EPA 8270E	Aldrin	0.66	U	ng/L	P428516	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400278	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P428516	
		Alpha-Chlordane	0.20	U	ng/L	P428516	
		PCB-1016	2.0	U	ng/L	P428516	
		Beta-BHC	0.10	U	ng/L	P428516	
		PCB-1221	2.0	U	ng/L	P428516	
		Beta-Cyfluthrin	1.3	U	ng/L	P428516	
		PCB-1232	2.0	U	ng/L	P428516	
		Bifenthrin	0.51	U	ng/L	P428516	
		PCB-1242	2.0	U	ng/L	P428516	
		PCB-1248	2.0	U	ng/L	P428516	
		Chlorothalonil	3.7	U	ng/L	P428516	
		PCB-1254	2.0	U	ng/L	P428516	
		Cis-Nonachlor	0.20	U	ng/L	P428516	
		PCB-1260	2.0	U	ng/L	P428516	
		Cypermethrin	1.5	U	ng/L	P428516	
		Dacthal	0.15	U	ng/L	P428516	
		DDD-p,p'	0.25	U	ng/L	P428516	
		DDE-p,p'	0.20	U	ng/L	P428516	
		DDT-p,p'	0.25	U	ng/L	P428516	
		Delta-BHC	0.41	U	ng/L	P428516	
		Deltamethrin	1.3	U	ng/L	P428516	
		Dichlobenil	0.25	U	ng/L	P428516	
		Dicofol	1.3	U	ng/L	P428516	
		Dieldrin	0.56	I	ng/L	P428516	
		Endosulfan I	0.41	U	ng/L	P428516	
		Endosulfan II	0.41	U	ng/L	P428516	
		Endosulfan Sulfate	0.31	U	ng/L	P428516	
		Endrin	0.41	U	ng/L	P428516	
		Endrin Aldehyde	0.76	U	ng/L	P428516	
		Endrin Ketone	0.41	U	ng/L	P428516	
		Esfenvalerate	0.76	U	ng/L	P428516	
		Ethalfuralin	0.15	U	ng/L	P428516	
		Fenpropathrin	0.25	U	ng/L	P428516	
		Gamma-BHC	0.13	U	ng/L	P428516	RPD
		Gamma-Chlordane	0.20	U	ng/L	P428516	
		Heptachlor	0.20	U	ng/L	P428516	
		Heptachlor Epoxide	0.25	U	ng/L	P428516	
		Hexachlorobenzene**	1.0	U	ng/L	P428516	
		Kepone	5.1	UJ	ng/L	P428516	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P428516	
		Methoprene	0.76	U	ng/L	P428516	
		Methoxychlor	0.31	U	ng/L	P428516	
		MGK-264	0.20	U	ng/L	P428516	
		Mirex	0.36	U	ng/L	P428516	
		Oxychlordane	0.31	U	ng/L	P428516	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400278	EPA 8270E	Permethrin	1.6	U	ng/L	P428516	
		Phenothrin	0.92	U	ng/L	P428516	
		Piperonyl Butoxide	0.69	I	ng/L	P428516	
		Prallethrin	2.0	U	ng/L	P428516	
		Tau-Fluvalinate	0.25	U	ng/L	P428516	
		Tetramethrin	0.76	U	ng/L	P428516	
		Trans-Nonachlor	0.20	U	ng/L	P428516	
		Triclosan Methyl	0.15	U	ng/L	P428516	
		Trifluralin	0.20	U	ng/L	P428516	
		Chlordane	2.0	UJ	ng/L	P428516	SUR
2400279	EPA 8270E	Toxaphene	15	UJ	ng/L	P428516	SUR
		Oxybenzone**	10	U	ng/L	P428413	
		Acetochlor	0.20	UJ	ng/L	P428413	CCV
		Octinoxate**	20	U	ng/L	P428413	
		Alachlor	0.41	U	ng/L	P428413	
		Avobenzone**	100	U	ng/L	P428413	
		Ametryn	1.1	U	ng/L	P428413	
		Atrazine	290		ng/L	P428413	
		PBDE-47**	4.1	U	ng/L	P428413	
		Atrazine Desethyl	77		ng/L	P428413	
		PBDE-99**	5.1	U	ng/L	P428413	
		Azinphos Methyl	3.1	U	ng/L	P428413	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P428413	
		Azoxystrobin	0.41	U	ng/L	P428413	
		Bromacil	3.2		ng/L	P428413	
		2-Ethylhexyl	12	U	ng/L	P428413	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P428413	
		Dechlorane Plus**	31	U	ng/L	P428413	
		Caffeine**	140		ng/L	P428413	
		Dechlorane 602**	5.1	U	ng/L	P428413	
		Carbophenothion	0.51	U	ng/L	P428413	
		Dechlorane 603**	4.1	U	ng/L	P428413	
		Carfentrazone Ethyl	0.15	U	ng/L	P428413	
		Hexabromobenzene**	6.1	U	ng/L	P428413	
		Chlorfenapyr	0.31	U	ng/L	P428413	
		PBB-153**	8.1	U	ng/L	P428413	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P428413	
		Pentabromotoluene**	3.1	U	ng/L	P428413	
		Chlorpyrifos Methyl	0.10	U	ng/L	P428413	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P428413	
		Coumaphos	1.1	U	ng/L	P428413	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	82		ng/L	P428413	
		Cyanazine	5.1	U	ng/L	P428413	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	4.4	I	ng/L	P428413	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400279	EPA 8270E	Cyprodinil	0.20	U	ng/L	P428413	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P428413	RPD
		Demeton	3.6	U	ng/L	P428413	
		Diazinon	0.13	U	ng/L	P428413	
		Difenoconazole	0.61	U	ng/L	P428413	
		Dimethenamid	0.10	U	ng/L	P428413	
		Dimethomorph	0.31	U	ng/L	P428413	
		Disulfoton	0.61	U	ng/L	P428413	
		Dithiopyr	1.0	U	ng/L	P428413	
		EPTC	0.51	U	ng/L	P428413	
		Ethion	0.31	U	ng/L	P428413	
		Ethoprop	0.13	U	ng/L	P428413	
		Etridiazole	0.10	U	ng/L	P428413	
		Fenamiphos	0.46	U	ng/L	P428413	
		Fenbuconazole	0.51	U	ng/L	P428413	
		Fipronil	1.0	I	ng/L	P428413	
		Fipronil DesulfinyI**	0.77		ng/L	P428413	
		Fipronil Sulfide	1.2		ng/L	P428413	
		Fipronil Sulfone	3.4		ng/L	P428413	
		Fluazifop-P-butyl	0.10	U	ng/L	P428413	
		Fludioxonil	0.10	U	ng/L	P428413	
		Flumioxazin	3.1	U	ng/L	P428413	
		Flutolanil	0.10	U	ng/L	P428413	
		Fluxapyroxad	0.25	U	ng/L	P428413	
		Fonofos	0.15	U	ng/L	P428413	RPD
		Hexazinone	0.51	U	ng/L	P428413	
		Imazalil	0.66	U	ng/L	P428413	
		Iprodione	0.51	U	ng/L	P428413	
		Loratadine**	0.31	U	ng/L	P428413	
		Malathion	0.36	U	ng/L	P428413	
		Metalaxyl	0.51	U	ng/L	P428413	
		Metolachlor	0.76	U	ng/L	P428413	
		Metribuzin	0.41	U	ng/L	P428413	MS, RPD
		Mevinphos	1.0	U	ng/L	P428413	
		Molinate	0.25	U	ng/L	P428413	
		Myclobutanil	0.36	U	ng/L	P428413	
		Naled	2.5	U	ng/L	P428413	
		Napropamide	0.71	UJ	ng/L	P428413	CCV
		Norflurazon	1.0	U	ng/L	P428413	
		Oxadiazon	0.86	I	ng/L	P428413	
		Oxyfluorfen	0.20	U	ng/L	P428413	
		Parathion Ethyl	0.15	U	ng/L	P428413	
		Parathion Methyl	0.20	U	ng/L	P428413	
		Pendimethalin	0.76	U	ng/L	P428413	
		Phenytain**	5.4	U	ng/L	P428413	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400279	EPA 8270E	Phorate	0.25	U	ng/L	P428413	CCV
		Prodiamine	0.20	U	ng/L	P428413	
		Prometon	3.1	U	ng/L	P428413	
		Prometryn	0.36	U	ng/L	P428413	
		Pronamide	0.10	U	ng/L	P428413	
		Propanil	0.10	U	ng/L	P428413	
		Propargite	0.81	U	ng/L	P428413	
		Propiconazole	0.61	U	ng/L	P428413	
		Pyraflufen Ethyl	0.31	U	ng/L	P428413	
		Pyridaben	1.4	U	ng/L	P428413	
		Pyriproxyfen	0.25	U	ng/L	P428413	
		Simazine	0.25	U	ng/L	P428413	
		Stirophos	0.41	U	ng/L	P428413	
		Sulfentrazone	6.6	I	ng/L	P428413	
		Tebuconazole	1.4	U	ng/L	P428413	
		Terbufos	0.20	U	ng/L	P428413	
		Terbuthylazine	0.20	U	ng/L	P428413	
		Thiobencarb	0.51	U	ng/L	P428413	
		Triadimefon	0.15	UJ	ng/L	P428413	
2400282	EPA 200.7 Rev. 4.4	Calcium	43.2		mg/L	P428501	
		Iron	270		ug/L	P428501	
		Magnesium	7.86		mg/L	P428501	
		Potassium	4.6		mg/L	P428501	
		Sodium	56.3		mg/L	P428501	
		Strontium	228		ug/L	P428501	
		Tin	3.0	U	ug/L	P428501	
		Titanium	1.0	I	ug/L	P428501	
		Vanadium	2.0	U	ug/L	P428501	
		Zinc	5.0	U	ug/L	P428501	
	EPA 200.8 Rev. 5.4	Aluminum	80		ug/L	P428501	
		Antimony	0.23		ug/L	P428501	
		Arsenic	0.73		ug/L	P428501	
		Barium	24.7		ug/L	P428501	
		Beryllium	0.010	U	ug/L	P428501	
		Boron	50.3		ug/L	P428501	
		Cadmium	0.020	U	ug/L	P428501	
		Chromium	0.65	I	ug/L	P428501	
		Cobalt	0.069	I	ug/L	P428501	
		Copper	0.59	I	ug/L	P428501	
		Lead	0.20	U	ug/L	P428501	
		Manganese	10.3		ug/L	P428501	
		Molybdenum	1.40		ug/L	P428501	
		Nickel	0.50	U	ug/L	P428501	
		Selenium	0.20	U	ug/L	P428501	
		Silver	0.018	I	ug/L	P428501	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400282	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P428501	
	SM 2340 B-2011	Hardness	140		mg/L	P428501	

Ref. Method and Comment:
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P428501

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: P428501

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: P428413

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428413

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428413

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428413

Component	Result	Code	Units
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
Phenytol	5.3	U	ng/L
Phenytol	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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428413

Component	Result	Code	Units
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)	15	U	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 8270E

Batch ID: P428516

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428516

Component	Result	Code	Units
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428516

Component	Result	Code	Units
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 8276

Batch ID: P428516

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: P428312

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P428312

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P428314

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: P428433

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	0.032	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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P428501

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	105		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	104		P	85 - 115
Sodium	104		P	85 - 115
Strontium	99.6		P	85 - 115
Tin	103		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P428501

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	105		P	85 - 115
Arsenic	101		P	85 - 115
Barium	103		P	85 - 115
Beryllium	99.1		P	85 - 115
Boron	103		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	105		P	85 - 115
Cobalt	107		P	85 - 115
Copper	103		P	85 - 115
Lead	108		P	85 - 115
Manganese	106		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	105		P	85 - 115
Selenium	97.4		P	85 - 115
Silver	109		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 8270E

Batch ID: P428413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.6		P	42 - 162
Acetochlor	82.9		P	69 - 123
Alachlor	95.7		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	93.1		P	73 - 118
Atrazine Desethyl	102		P	32 - 125
Avobenzone	118		P	40 - 203
Azinphos Methyl	83.3		P	36 - 197
Azoxystrobin	118		P	58 - 226
Bromacil	106		P	48 - 120
Butylate	57.0		P	27 - 85.0
Caffeine	112		P	40 - 137
Carbophenothion	108		P	54 - 132
Carfentrazone Ethyl	106		P	60 - 142
Chlorfenapyr	92.0		P	53 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	84.4		P	59 - 116
Chlorpyrifos Methyl	99.8		P	66 - 119
Coumaphos	116		P	11 - 234
Cyanazine	142		P	61 - 248
Cyprodinil	97.0		P	50 - 147
Dechlorane 602	96.7		P	50 - 150
Dechlorane 603	86.9		P	50 - 150
Dechlorane Plus	114		P	47 - 182
Demeton	100		P	30 - 138
Diazinon	114		P	67 - 126
Difenoconazole	102		P	38 - 205
Dimethenamid	105		P	57 - 111
Dimethomorph	165		P	16 - 212
Disulfoton	96.9		P	46 - 126
Dithiopyr	108		P	62 - 115
EPTC	56.0		P	28 - 80.0
Ethion	47.4		P	24 - 122
Ethoprop	92.9		P	62 - 113
Etridiazole	47.5		P	28 - 92.0
Fenamiphos	77.9		P	57 - 128
Fenbuconazole	99.2		P	52 - 155
Fipronil	105		P	63 - 130
Fipronil Desulfinyl	107		P	61 - 130
Fipronil Sulfide	114		P	56 - 117
Fipronil Sulfone	101		P	52 - 118
Fluazifop-P-butyl	71.6		P	61 - 128
Fludioxonil	92.7		P	59 - 129
Flumioxazin	131		P	30 - 250
Flutolanil	91.7		P	53 - 127
Fluxapyroxad	96.3		P	42 - 132
Fonofos	105		P	61 - 110
Hexabromobenzene	116		P	50 - 150
Hexazinone	87.9		P	46 - 139
Imazalil	97.9		P	40 - 139
Iprodione	82.9		P	40 - 146
Loratadine	159		P	10 - 224
Malathion	96.4		P	61 - 135
Metalaxyl	97.8		P	58 - 121
Metolachlor	112		P	64 - 118
Metribuzin	111		P	45 - 245
Mevinphos	87.7		P	49 - 118
Molinate	57.1		P	42 - 92.0
Myclobutanil	97.8		P	55 - 127
Naled	45.5		P	10 - 114
Napropamide	78.9		P	39 - 121
Norflurazon	83.6		P	55 - 129
Octinoxate	98.6		P	26 - 166
Oxadiazon	96.1		P	54 - 115
Oxybenzone	93.0		P	49 - 135
Oxyfluorfen	106		P	64 - 139
Parathion Ethyl	95.9		P	70 - 111
Parathion Methyl	92.3		P	76 - 136

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	102		P	50 - 150
PBDE-47	97.5		P	41 - 148
PBDE-99	89.3		P	38 - 147
Pendimethalin	106		P	52 - 118
Pentabromotoluene	103		P	50 - 150
Phenytoin	40.4		P	10 - 162
Phorate	97.5		P	40 - 122
Prodiamine	70.4		P	26 - 141
Prometon	57.4		P	54 - 122
Prometryn	124		P	61 - 128
Pronamide	115		P	72 - 121
Propanil	108		P	45 - 144
Propargite	71.3		P	10 - 199
Propiconazole	60.9		P	56 - 127
Pyraflufen Ethyl	74.9		P	56 - 140
Pyridaben	103		P	26 - 211
Pyriproxyfen	93.7		P	33 - 194
Simazine	89.5		P	67 - 121
Stirophos	64.5		P	20 - 142
Sulfentrazone	73.2		P	21 - 144
Tebuconazole	57.3		P	10 - 122
Terbufos	111		P	60 - 129
Terbuthylazine	86.4		P	69 - 113
Tetradecachloro-m-terphenyl	159		P	70 - 200
Thiobencarb	102		P	51 - 120
Tri-o-cresyl Phosphate	106		P	49 - 150
Triadimefon	105		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	105		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.7		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	102		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P428516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.6		P	10 - 92.0
Alpha-BHC	95.1		P	75 - 107
Alpha-Chlordane	80.8		P	50 - 108
Beta-BHC	92.6		P	36 - 138
Beta-Cyfluthrin	96.4		P	20 - 161
Bifenthrin	67.9		P	10 - 119
Chlorothalonil	70.3		P	26 - 186
Cis-Nonachlor	76.0		P	42 - 119
Cypermethrin	92.4		P	22 - 150
Dacthal	95.7		P	72 - 119
DDD-p,p'	71.9		P	45 - 107
DDE-p,p'	77.1		P	48 - 106
DDT-p,p'	81.2		P	48 - 110
Delta-BHC	90.1		P	54 - 140
Deltamethrin	105		P	22 - 189
Dichlobenil	70.1		P	36 - 117
Dicofol	82.9		P	46 - 155

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dieldrin	79.0		P	54 - 110
Endosulfan I	77.1		P	59 - 105
Endosulfan II	81.7		P	51 - 118
Endosulfan Sulfate	91.6		P	57 - 121
Endrin	84.5		P	10 - 120
Endrin Aldehyde	80.5		P	34 - 118
Endrin Ketone	127		P	69 - 177
Esfenvalerate	90.0		P	23 - 168
Ethalfuralin	79.7		P	49 - 99.0
Fenpropathrin	86.2		P	34 - 117
Gamma-BHC	87.3		P	72 - 117
Gamma-Chlordane	76.6		P	43 - 106
Heptachlor	72.0		P	41 - 98.0
Heptachlor Epoxide	84.7		P	57 - 106
Hexachlorobenzene	63.4		P	36 - 99.0
Kepone	86.5		P	16 - 215
Lambda-Cyhalothrin	80.2		P	21 - 177
Methoprene	63.9		P	10 - 119
Methoxychlor	93.2		P	60 - 112
MGK-264	79.6		P	26 - 122
Mirex	65.4		P	10 - 169
Oxychlordane	74.1		P	43 - 105
PCB-1016	81.3		P	48 - 112
PCB-1260	75.0		P	44 - 118
Permethrin	86.3		P	24 - 148
Phenothrin	59.5		P	10 - 106
Piperonyl Butoxide	93.9		P	10 - 139
Prallethrin	68.1		P	17 - 109
Tau-Fluvalinate	84.3		P	13 - 131
Tetramethrin	73.6		P	10 - 132
Trans-Nonachlor	77.5		P	44 - 106
Triclosan Methyl	79.7		P	59 - 109
Trifluralin	82.6		P	44 - 101

Reference Method: EPA 8276

Batch ID: P428516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.6		P	61 - 116
Toxaphene	95.7		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P428312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.8		P	40 - 150
AMPA	118		P	40 - 150
Endothall	89.3		P	40 - 150
Glufosinate	98.7		P	40 - 150
Glyphosate	124		P	40 - 150
Sucralose	112		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P428314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	70.0		P	40 - 150
Aldicarb	62.7		P	30 - 150
Aldicarb Sulfone	81.2		P	40 - 150
Aldicarb Sulfoxide	98.4		P	40 - 150
Carbaryl	86.4		P	40 - 150
Carbofuran	76.3		P	40 - 150
Methiocarb	76.1		P	40 - 150
Methomyl	85.1		P	40 - 150
Oxamyl	80.2		P	40 - 150
Propoxur	76.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.4		P	40 - 150
2,4,5-T	84.6		P	40 - 150
Acetaminophen	69.2		P	30 - 150
Acetamiprid	79.1		P	40 - 150
Afidopyropen	58.0		P	30 - 150
Bentazon	80.6		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150
Carbamazepine	78.5		P	40 - 150
Clothianidin	82.7		P	40 - 150
Dinotefuran	88.1		P	40 - 150
Diuron	99.6		P	40 - 150
Fenuron	79.1		P	40 - 150
Fluridone	64.9		P	40 - 150
Hydrocodone	83.7		P	40 - 150
Ibuprofen	59.7		P	40 - 150
Imazapyr	87.2		P	40 - 150
Imidacloprid	82.3		P	40 - 150
Linuron	70.3		P	40 - 150
Mandestrobin	83.2		P	40 - 150
MCPP	96.8		P	40 - 150
Naproxen	66.0		P	40 - 150
Primidone	83.8		P	40 - 150
Pyraclostrobin	74.4		P	40 - 150
Silvex	100		P	40 - 150
Thiamethoxam	80.2		P	40 - 150
Tolfenpyrad	53.0		P	30 - 150
Triclopyr	95.8		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P428501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400047	Calcium	101		P	80 - 120
2400047	Iron	105	105	P/P	80 - 120
2400047	Magnesium	103		P	80 - 120
2400047	Potassium	101	103	P/P	80 - 120
2400047	Sodium	104	107	P/P	80 - 120
2400047	Strontium	98.6	100	P/P	80 - 120
2400047	Tin	98.8	101	P/P	80 - 120
2400047	Titanium	101	101	P/P	80 - 120
2400047	Vanadium	101	102	P/P	80 - 120
2400047	Zinc	100	99.9	P/P	80 - 120
2400258	Calcium	103		P	80 - 120
2400258	Iron	103		P	80 - 120
2400258	Magnesium	106		P	80 - 120
2400258	Potassium	102		P	80 - 120
2400258	Sodium	105		P	80 - 120
2400258	Strontium	100		P	80 - 120
2400258	Tin	99.4		P	80 - 120
2400258	Titanium	103		P	80 - 120
2400258	Vanadium	103		P	80 - 120
2400258	Zinc	105		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P428501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400047	Aluminum	103	105	P/P	80 - 120
2400047	Antimony	108	109	P/P	80 - 120
2400047	Arsenic	102	103	P/P	80 - 120
2400047	Barium	102	104	P/P	80 - 120
2400047	Beryllium	96.1	93.7	P/P	80 - 120
2400047	Boron	106	104	P/P	80 - 120
2400047	Cadmium	105	104	P/P	80 - 120
2400047	Chromium	106	105	P/P	80 - 120
2400047	Cobalt	104	103	P/P	80 - 120
2400047	Copper	99.9	101	P/P	80 - 120
2400047	Lead	106	107	P/P	80 - 120
2400047	Manganese	104	106	P/P	80 - 120
2400047	Molybdenum	104	105	P/P	80 - 120
2400047	Nickel	101	103	P/P	80 - 120
2400047	Selenium	96.3	97.4	P/P	80 - 120
2400047	Silver	110	109	P/P	80 - 120
2400047	Thallium	99.1	106	P/P	80 - 120
2400258	Aluminum	101		P	80 - 120
2400258	Antimony	105		P	80 - 120
2400258	Arsenic	101		P	80 - 120
2400258	Barium	99.6		P	80 - 120
2400258	Beryllium	95.8		P	80 - 120
2400258	Boron	106		P	80 - 120
2400258	Cadmium	104		P	80 - 120
2400258	Chromium	108		P	80 - 120
2400258	Cobalt	107		P	80 - 120
2400258	Copper	105		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P428501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400258	Lead	108		P	80 - 120
2400258	Manganese	103		P	80 - 120
2400258	Molybdenum	102		P	80 - 120
2400258	Nickel	104		P	80 - 120
2400258	Selenium	96.5		P	80 - 120
2400258	Silver	108		P	80 - 120
2400258	Thallium	99.6		P	80 - 120

Reference Method: EPA 8270E
Batch ID: P428413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400163	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.0	90.3	P/P	26 - 165
2400163	Acetochlor	69.8	72.5	P/P	67 - 124
2400163	Alachlor	105	111	P/P	60 - 120
2400163	Ametryn	115	107	P/P	54 - 216
2400163	Atrazine	80.4	69.8	P/P	66 - 128
2400163	Atrazine Desethyl	95.5	101	P/P	15 - 122
2400163	Avobenzene	81.0	105	P/P	37 - 178
2400163	Azinphos Methyl	54.6	69.6	P/P	40 - 292
2400163	Azoxystrobin	111	130	P/P	35 - 220
2400163	Bromacil	93.1	96.4	P/P	45 - 127
2400163	Butylate	66.2	70.8	P/P	20 - 83.0
2400163	Caffeine	129	112	P/P	10 - 194
2400163	Carbophenothion	85.9	100	P/P	57 - 127
2400163	Carfentrazone Ethyl	90.4	94.4	P/P	51 - 141
2400163	Chlorfenapyr	68.4	84.8	P/P	46 - 111
2400163	Chlorpyrifos Ethyl	57.4	56.3	P/P	52 - 120
2400163	Chlorpyrifos Methyl	85.5	96.7	P/P	63 - 119
2400163	Coumaphos	106	101	P/P	10 - 228
2400163	Cyanazine	131	124	P/P	59 - 241
2400163	Cyprodinil	82.6	92.1	P/P	47 - 146
2400163	Dechlorane 602	74.3	77.2	P/P	50 - 150
2400163	Dechlorane 603	76.3	80.4	P/P	50 - 150
2400163	Dechlorane Plus	89.8	88.2	P/P	50 - 150
2400163	Demeton	83.0	88.3	P/P	40 - 136
2400163	Diazinon	113	107	P/P	69 - 132
2400163	Difenoconazole	122	104	P/P	57 - 258
2400163	Dimethenamid	81.0	92.0	P/P	54 - 110
2400163	Dimethomorph	146	130	P/P	28 - 210
2400163	Disulfoton	92.5	83.7	P/P	43 - 133
2400163	Dithiopyr	91.7	105	P/P	39 - 116
2400163	EPTC	59.7	69.9	P/P	20 - 78.0
2400163	Ethion	25.9	38.5	P/P	17 - 119
2400163	Ethoprop	93.8	99.0	P/P	66 - 120
2400163	Etridiazole	57.9	58.8	P/P	28 - 96.0
2400163	Fenamiphos	50.8	50.7	P/P	41 - 126
2400163	Fenbuconazole	88.3	94.1	P/P	42 - 169
2400163	Fipronil	86.5	87.9	P/P	61 - 132
2400163	Fipronil Desulfinyl	84.2	92.4	P/P	56 - 132
2400163	Fipronil Sulfide	96.5	105	P/P	48 - 119
2400163	Fipronil Sulfone	81.5	96.8	P/P	42 - 131

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400163	Fluazifop-P-butyl	96.8	110	P/P	53 - 131
2400163	Fludioxonil	68.4	75.5	P/P	56 - 127
2400163	Flumioxazin	123	91.2	P/P	19 - 300
2400163	Flutolanil	111	127	P/P	41 - 127
2400163	Fluxapyroxad	60.4	69.2	P/P	42 - 172
2400163	Fonofos	88.8	65.4	P/P	59 - 113
2400163	Hexabromobenzene	126	110	P/P	50 - 150
2400163	Hexazinone	82.3	86.8	P/P	66 - 122
2400163	Imazail	110	67.6	P/P	21 - 283
2400163	Iprodione	61.7	69.1	P/P	43 - 150
2400163	Loratadine	89.2	86.8	P/P	23 - 201
2400163	Malathion	77.0	87.5	P/P	58 - 136
2400163	Metalaxyl	83.2	83.3	P/P	55 - 120
2400163	Metolachlor	95.1	101	P/P	57 - 121
2400163	Metribuzin	47.1	78.9	F/P	58 - 294
2400163	Mevinphos	89.0	90.6	P/P	50 - 126
2400163	Molinate	61.4	63.6	P/P	42 - 93.0
2400163	Myclobutanil	79.0	92.2	P/P	55 - 125
2400163	Naled	46.6	50.9	P/P	18 - 200
2400163	Napropamide	49.9	61.4	P/P	39 - 110
2400163	Norflurazon	65.6	84.9	P/P	48 - 128
2400163	Octinoxate	77.5	80.0	P/P	21 - 159
2400163	Oxadiazon	73.1	82.3	P/P	43 - 112
2400163	Oxybenzone	81.2	81.8	P/P	41 - 142
2400163	Oxyfluorfen	101	108	P/P	64 - 153
2400163	Parathion Ethyl	92.2	103	P/P	69 - 114
2400163	Parathion Methyl	96.2	95.7	P/P	79 - 139
2400163	PBB-153	81.7	88.4	P/P	50 - 150
2400163	PBDE-47	78.6	82.7	P/P	27 - 144
2400163	PBDE-99	69.2	74.3	P/P	18 - 150
2400163	Pendimethalin	127	136	P/P	50 - 139
2400163	Pentabromotoluene	106	108	P/P	50 - 150
2400163	Phenytoin	33.0	35.4	P/P	10 - 146
2400163	Phorate	147	130	P/P	54 - 161
2400163	Prodiamine	62.5	67.4	P/P	30 - 161
2400163	Prometon	55.4	57.3	P/P	45 - 134
2400163	Prometryn	134	109	P/P	45 - 137
2400163	Pronamide	107	109	P/P	65 - 133
2400163	Propanil	99.6	109	P/P	49 - 142
2400163	Propargite	35.7	35.3	P/P	10 - 203
2400163	Propiconazole	58.8	69.3	P/P	38 - 146
2400163	Pyraflufen Ethyl	71.9	77.8	P/P	34 - 153
2400163	Pyridaben	89.0	83.5	P/P	12 - 192
2400163	Pyriproxyfen	53.2	67.4	P/P	33 - 180
2400163	Simazine	74.6	81.3	P/P	51 - 157
2400163	Stirophos	43.3	58.4	P/P	10 - 128
2400163	Sulfentrazone	70.9	92.4	P/P	53 - 186
2400163	Tebuconazole	33.3	38.7	P/P	10 - 133
2400163	Terbufos	121	115	P/P	65 - 139
2400163	Terbutylazine	84.7	79.7	P/P	66 - 117
2400163	Tetradecachloro-m-terphenyl	152	97.0	P/P	70 - 200
2400163	Thiobencarb	82.2	92.2	P/P	51 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400163	Tri-o-cresyl Phosphate	110	107	P/P	31 - 144
2400163	Triadimefon	83.2	91.7	P/P	48 - 119
2400163	Tris(1-chloro-2-propyl) phosphate (TCPP)	77.2	78.6	P/P	50 - 150
2400163	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.4	76.4	P/P	50 - 150
2400163	Tris(2-chloroethyl) phosphate (TCEP)	103	100	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P428516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400278	PCB-1016	84.8	99.4	P/P	46 - 111
2400278	PCB-1260	77.8	82.8	P/P	45 - 114
2400372	Aldrin	46.1	46.9	P/P	20 - 82.0
2400372	Alpha-BHC	92.1	88.6	P/P	71 - 109
2400372	Alpha-Chlordane	54.0	52.8	P/P	42 - 106
2400372	Beta-BHC	111	89.2	P/P	69 - 180
2400372	Beta-Cyfluthrin	92.2	73.8	P/P	18 - 175
2400372	Bifenthrin	56.2	59.3	P/P	21 - 128
2400372	Chlorothalonil	93.7	63.8	P/P	10 - 300
2400372	Cis-Nonachlor	55.8	63.8	P/P	34 - 106
2400372	Cypermethrin	84.3	69.5	P/P	22 - 158
2400372	Dacthal	95.6	88.0	P/P	54 - 116
2400372	DDD-p,p'	52.8	58.5	P/P	34 - 107
2400372	DDE-p,p'	59.8	67.4	P/P	33 - 110
2400372	DDT-p,p'	68.8	66.8	P/P	50 - 122
2400372	Delta-BHC	110	86.9	P/P	77 - 193
2400372	Deltamethrin	103	77.9	P/P	10 - 195
2400372	Dichlobenil	70.3	58.3	P/P	25 - 113
2400372	Dicofol	73.0	71.2	P/P	38 - 247
2400372	Dieldrin	64.3	71.6	P/P	45 - 118
2400372	Endosulfan I	61.0	69.5	P/P	51 - 106
2400372	Endosulfan II	65.0	73.0	P/P	37 - 122
2400372	Endosulfan Sulfate	85.5	79.6	P/P	43 - 132
2400372	Endrin	63.0	71.6	P/P	29 - 101
2400372	Endrin Aldehyde	79.9	72.0	P/P	19 - 110
2400372	Endrin Ketone	115	111	P/P	60 - 140
2400372	Esfenvalerate	90.0	68.4	P/P	26 - 199
2400372	Ethalfuralin	66.4	65.2	P/P	45 - 99.0
2400372	Fenpropathrin	76.3	66.0	P/P	35 - 120
2400372	Gamma-BHC	113	87.2	P/P	63 - 128
2400372	Gamma-Chlordane	54.9	63.1	P/P	40 - 104
2400372	Heptachlor	61.8	62.2	P/P	36 - 97.0
2400372	Heptachlor Epoxide	69.1	63.3	P/P	49 - 184
2400372	Hexachlorobenzene	53.7	49.3	P/P	39 - 96.0
2400372	Kepone	115	87.0	P/P	10 - 217
2400372	Lambda-Cyhalothrin	83.2	67.3	P/P	21 - 193
2400372	Methoprene	58.3	58.9	P/P	20 - 106
2400372	Methoxychlor	86.0	78.2	P/P	53 - 118
2400372	MGK-264	91.8	77.9	P/P	40 - 118
2400372	Mirex	49.0	56.4	P/P	26 - 92.0
2400372	Oxychlordane	59.4	63.1	P/P	44 - 99.0
2400372	Permethrin	81.0	66.1	P/P	33 - 182

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400372	Phenothrin	70.3	53.8	P/P	10 - 129
2400372	Piperonyl Butoxide	98.6	89.4	P/P	10 - 211
2400372	Prallethrin	59.0	63.9	P/P	24 - 113
2400372	Tau-Fluvalinate	87.4	66.1	P/P	14 - 149
2400372	Tetramethrin	76.9	66.2	P/P	17 - 151
2400372	Trans-Nonachlor	57.5	62.9	P/P	42 - 102
2400372	Triclosan Methyl	63.9	72.4	P/P	48 - 108
2400372	Trifluralin	70.3	70.0	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P428516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400278	Chlordane	87.4	87.6	P/P	53 - 126
2400278	Toxaphene	111	111	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P428312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399392	Acesulfame K	93.0	93.7	P/P	40 - 150
2399392	AMPA	118	117	P/P	40 - 150
2399392	Endothall	96.7	98.9	P/P	40 - 150
2399392	Glufosinate	95.9	99.4	P/P	40 - 150
2399392	Glyphosate	110	107	P/P	40 - 150
2399392	Sucralose	97.5	93.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400159	3-Hydroxycarbofuran	69.2	69.5	P/P	40 - 150
2400159	Aldicarb	44.7	44.1	P/P	30 - 150
2400159	Aldicarb Sulfone	73.8	72.2	P/P	40 - 150
2400159	Aldicarb Sulfoxide	32.3	32.4	F/F	40 - 150
2400159	Carbaryl	71.3	67.3	P/P	40 - 150
2400159	Carbofuran	51.1	50.8	P/P	40 - 150
2400159	Methiocarb	71.6	64.9	P/P	40 - 150
2400159	Methomyl	54.3	53.7	P/P	40 - 150
2400159	Oxamyl	62.7	71.9	P/P	40 - 150
2400159	Propoxur	47.6	45.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399997	2,4-D	89.5	92.4	P/P	40 - 150
2399997	2,4,5-T	103	108	P/P	40 - 150
2399997	Acetaminophen	94.4	95.1	P/P	30 - 150
2399997	Acetamiprid	49.8	44.5	P/P	40 - 150
2399997	Afidopyropen	72.9	79.0	P/P	30 - 150
2399997	Benzovindiflupyr	89.0	82.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P428433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399997	Carbamazepine	57.5	59.8	P/P	40 - 150
2399997	Clothianidin	73.2	74.9	P/P	40 - 150
2399997	Dinotefuran	49.4	49.6	P/P	40 - 150
2399997	Diuron	71.7	71.2	P/P	40 - 150
2399997	Fenuron	38.4	40.6	F/P	40 - 150
2399997	Fluridone	69.0	57.7	P/P	40 - 150
2399997	Hydrocodone	46.2	44.4	P/P	40 - 150
2399997	Ibuprofen	61.7	55.7	P/P	40 - 150
2399997	Imazapyr	71.1	68.9	P/P	40 - 150
2399997	Imidacloprid	99.4	102	P/P	40 - 150
2399997	Linuron	74.8	68.0	P/P	40 - 150
2399997	Mandestrobin	89.1	83.9	P/P	40 - 150
2399997	MCPP	104	121	P/P	40 - 150
2399997	Naproxen	66.7	59.6	P/P	40 - 150
2399997	Primidone	69.6	78.0	P/P	40 - 150
2399997	Pyraclostrobin	80.2	77.9	P/P	40 - 150
2399997	Silvex	114	106	P/P	40 - 150
2399997	Thiamethoxam	53.9	58.6	P/P	40 - 150
2399997	Tolfenpyrad	49.2	55.9	P/P	30 - 150
2399997	Triclopyr	123	117	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P428501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400047	Calcium	1.77	Spike	P	0 - 20
2400047	Iron	0.694	Spike	P	0 - 20
2400047	Magnesium	1.51	Spike	P	0 - 20
2400047	Potassium	1.40	Spike	P	0 - 20
2400047	Sodium	1.89	Spike	P	0 - 20
2400047	Strontium	1.50	Spike	P	0 - 20
2400047	Tin	2.49	Spike	P	0 - 20
2400047	Titanium	0.770	Spike	P	0 - 20
2400047	Vanadium	1.02	Spike	P	0 - 20
2400047	Zinc	0.194	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P428501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400047	Aluminum	1.73	Spike	P	0 - 20
2400047	Antimony	1.44	Spike	P	0 - 20
2400047	Arsenic	1.55	Spike	P	0 - 20
2400047	Barium	2.22	Spike	P	0 - 20
2400047	Beryllium	2.51	Spike	P	0 - 20
2400047	Boron	2.24	Spike	P	0 - 20
2400047	Cadmium	1.15	Spike	P	0 - 20
2400047	Chromium	1.43	Spike	P	0 - 20
2400047	Cobalt	0.899	Spike	P	0 - 20
2400047	Copper	1.32	Spike	P	0 - 20
2400047	Lead	1.50	Spike	P	0 - 20
2400047	Manganese	2.04	Spike	P	0 - 20
2400047	Molybdenum	0.841	Spike	P	0 - 20
2400047	Nickel	1.97	Spike	P	0 - 20
2400047	Selenium	1.16	Spike	P	0 - 20
2400047	Silver	0.892	Spike	P	0 - 20
2400047	Thallium	6.56	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P428413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400163	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.8	Spike	P	0 - 37
2400163	Acetochlor	3.77	Spike	P	0 - 28
2400163	Alachlor	5.95	Spike	P	0 - 30
2400163	Ametryn	7.47	Spike	P	0 - 32
2400163	Atrazine	6.71	Spike	P	0 - 41
2400163	Atrazine Desethyl	5.31	Spike	P	0 - 36
2400163	Avobenzone	25.8	Spike	P	0 - 36
2400163	Azinphos Methyl	24.3	Spike	P	0 - 75
2400163	Azoxystrobin	16.1	Spike	P	0 - 39
2400163	Bromacil	3.50	Spike	P	0 - 33
2400163	Butylate	6.70	Spike	P	0 - 44
2400163	Caffeine	10.5	Spike	P	0 - 74

Quality Assurance Report

Precision

Reference Method: EPA 8270E
Batch ID: P428413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400163	Carbophenothion	15.7	Spike	P	0 - 25
2400163	Carfentrazone Ethyl	4.32	Spike	P	0 - 27
2400163	Chlorfenapyr	21.5	Spike	P	0 - 24
2400163	Chlorpyrifos Ethyl	1.93	Spike	P	0 - 26
2400163	Chlorpyrifos Methyl	12.3	Spike	P	0 - 26
2400163	Coumaphos	5.46	Spike	P	0 - 28
2400163	Cyanazine	5.59	Spike	P	0 - 48
2400163	Cyprodinil	10.9	Spike	P	0 - 29
2400163	Dechlorane 602	3.80	Spike	P	0 - 30
2400163	Dechlorane 603	5.31	Spike	P	0 - 30
2400163	Dechlorane Plus	1.84	Spike	P	0 - 30
2400163	Demeton	6.20	Spike	P	0 - 33
2400163	Diazinon	5.40	Spike	P	0 - 29
2400163	Difenoconazole	15.4	Spike	P	0 - 34
2400163	Dimethenamid	12.8	Spike	P	0 - 39
2400163	Dimethomorph	11.9	Spike	P	0 - 51
2400163	Disulfoton	9.94	Spike	P	0 - 30
2400163	Dithiopyr	13.4	Spike	P	0 - 26
2400163	EPTC	15.7	Spike	P	0 - 43
2400163	Ethion	39.3	Spike	P	0 - 79
2400163	Ethoprop	5.32	Spike	P	0 - 29
2400163	Etridiazole	1.55	Spike	P	0 - 33
2400163	Fenamiphos	0.175	Spike	P	0 - 40
2400163	Fenbuconazole	6.36	Spike	P	0 - 74
2400163	Fipronil	1.65	Spike	P	0 - 29
2400163	Fipronil Desulfanyl	8.84	Spike	P	0 - 32
2400163	Fipronil Sulfide	8.42	Spike	P	0 - 30
2400163	Fipronil Sulfone	17.1	Spike	P	0 - 33
2400163	Fluazifop-P-butyl	12.5	Spike	P	0 - 38
2400163	Fludioxonil	9.86	Spike	P	0 - 29
2400163	Flumioxazin	29.7	Spike	P	0 - 51
2400163	Flutolanil	13.6	Spike	P	0 - 25
2400163	Fluxapyroxad	13.6	Spike	P	0 - 45
2400163	Fonofos	30.5	Spike	F	0 - 27
2400163	Hexabromobenzene	13.2	Spike	P	0 - 30
2400163	Hexazinone	5.29	Spike	P	0 - 30
2400163	Imazalil	47.8	Spike	P	0 - 100
2400163	Iprodione	11.3	Spike	P	0 - 33
2400163	Loratadine	2.75	Spike	P	0 - 56
2400163	Malathion	12.8	Spike	P	0 - 37
2400163	Metalaxyl	0.194	Spike	P	0 - 40
2400163	Metolachlor	6.13	Spike	P	0 - 29
2400163	Metribuzin	50.5	Spike	F	0 - 45
2400163	Mevinphos	1.83	Spike	P	0 - 29
2400163	Molinate	3.54	Spike	P	0 - 33
2400163	Myclobutanil	15.4	Spike	P	0 - 26
2400163	Naled	8.82	Spike	P	0 - 37
2400163	Napropamide	20.6	Spike	P	0 - 44
2400163	Norflurazon	25.8	Spike	P	0 - 30
2400163	Octinoxate	3.20	Spike	P	0 - 45
2400163	Oxadiazon	11.8	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P428413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400163	Oxybenzone	0.787	Spike	P	0 - 46
2400163	Oxyfluorfen	6.72	Spike	P	0 - 28
2400163	Parathion Ethyl	11.2	Spike	P	0 - 31
2400163	Parathion Methyl	0.511	Spike	P	0 - 29
2400163	PBB-153	7.86	Spike	P	0 - 30
2400163	PBDE-47	5.17	Spike	P	0 - 36
2400163	PBDE-99	7.16	Spike	P	0 - 40
2400163	Pendimethalin	7.06	Spike	P	0 - 33
2400163	Pentabromotoluene	1.29	Spike	P	0 - 30
2400163	Phenytoin	6.90	Spike	P	0 - 100
2400163	Phorate	12.4	Spike	P	0 - 36
2400163	Prodiamine	7.51	Spike	P	0 - 71
2400163	Prometon	3.40	Spike	P	0 - 36
2400163	Prometryn	20.2	Spike	P	0 - 28
2400163	Pronamide	1.91	Spike	P	0 - 24
2400163	Propanil	9.24	Spike	P	0 - 28
2400163	Propargite	1.00	Spike	P	0 - 43
2400163	Propiconazole	16.5	Spike	P	0 - 33
2400163	Pyraflufen Ethyl	7.80	Spike	P	0 - 29
2400163	Pyridaben	6.37	Spike	P	0 - 30
2400163	Pyriproxyfen	23.6	Spike	P	0 - 79
2400163	Simazine	7.81	Spike	P	0 - 29
2400163	Stiropfos	29.7	Spike	P	0 - 61
2400163	Sulfentrazone	26.4	Spike	P	0 - 33
2400163	Tebuconazole	14.9	Spike	P	0 - 69
2400163	Terbufos	5.60	Spike	P	0 - 29
2400163	Terbuthylazine	6.08	Spike	P	0 - 32
2400163	Tetradecachloro-m-terphenyl	44.4	Spike	F	0 - 30
2400163	Thiobencarb	11.5	Spike	P	0 - 26
2400163	Tri-o-cresyl Phosphate	2.84	Spike	P	0 - 33
2400163	Triadimefon	9.79	Spike	P	0 - 28
2400163	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.87	Spike	P	0 - 30
2400163	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.56	Spike	P	0 - 30
2400163	Tris(2-chloroethyl) phosphate (TCEP)	2.48	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P428516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400278	PCB-1016	15.9	Spike	P	0 - 32
2400278	PCB-1260	6.24	Spike	P	0 - 31
2400372	Aldrin	1.69	Spike	P	0 - 41
2400372	Alpha-BHC	3.91	Spike	P	0 - 25
2400372	Alpha-Chlordane	0.882	Spike	P	0 - 33
2400372	Beta-BHC	21.6	Spike	P	0 - 36
2400372	Beta-Cyfluthrin	22.2	Spike	P	0 - 42
2400372	Bifenthrin	5.29	Spike	P	0 - 53
2400372	Chlorothalonil	38.1	Spike	P	0 - 71
2400372	Cis-Nonachlor	13.3	Spike	P	0 - 29
2400372	Cypermethrin	19.2	Spike	P	0 - 40

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P428516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400372	Dacthal	8.22	Spike	P	0 - 26
2400372	DDD-p,p'	10.3	Spike	P	0 - 39
2400372	DDE-p,p'	12.1	Spike	P	0 - 33
2400372	DDT-p,p'	2.94	Spike	P	0 - 40
2400372	Delta-BHC	23.3	Spike	P	0 - 37
2400372	Deltamethrin	28.0	Spike	P	0 - 100
2400372	Dichlobenil	18.7	Spike	P	0 - 40
2400372	Dicofol	2.57	Spike	P	0 - 31
2400372	Dieldrin	10.9	Spike	P	0 - 27
2400372	Endosulfan I	13.1	Spike	P	0 - 23
2400372	Endosulfan II	11.6	Spike	P	0 - 28
2400372	Endosulfan Sulfate	7.11	Spike	P	0 - 38
2400372	Endrin	12.8	Spike	P	0 - 63
2400372	Endrin Aldehyde	10.4	Spike	P	0 - 60
2400372	Endrin Ketone	3.64	Spike	P	0 - 37
2400372	Esfenvalerate	27.3	Spike	P	0 - 52
2400372	Ethalfuralin	1.73	Spike	P	0 - 23
2400372	Fenpropathrin	14.4	Spike	P	0 - 32
2400372	Gamma-BHC	25.5	Spike	F	0 - 17
2400372	Gamma-Chlordane	9.71	Spike	P	0 - 40
2400372	Heptachlor	0.711	Spike	P	0 - 29
2400372	Heptachlor Epoxide	6.21	Spike	P	0 - 25
2400372	Hexachlorobenzene	8.70	Spike	P	0 - 36
2400372	Kepone	27.3	Spike	P	0 - 93
2400372	Lambda-Cyhalothrin	21.2	Spike	P	0 - 55
2400372	Methoprene	1.08	Spike	P	0 - 53
2400372	Methoxychlor	9.54	Spike	P	0 - 29
2400372	MGK-264	16.3	Spike	P	0 - 35
2400372	Mirex	14.0	Spike	P	0 - 46
2400372	Oxychlordane	5.97	Spike	P	0 - 29
2400372	Permethrin	20.3	Spike	P	0 - 44
2400372	Phenothrin	26.7	Spike	P	0 - 56
2400372	Piperonyl Butoxide	9.78	Spike	P	0 - 100
2400372	Prallethrin	7.98	Spike	P	0 - 42
2400372	Tau-Fluvalinate	27.8	Spike	P	0 - 54
2400372	Tetramethrin	14.9	Spike	P	0 - 51
2400372	Trans-Nonachlor	7.14	Spike	P	0 - 37
2400372	Triclosan Methyl	12.5	Spike	P	0 - 31
2400372	Trifluralin	0.317	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P428516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400278	Chlordane	0.232	Spike	P	0 - 25
2400278	Toxaphene	0.723	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P428312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399392	Acesulfame K	0.734	Spike	P	0 - 30
2399392	AMPA	0.933	Spike	P	0 - 30
2399392	Endothall	2.21	Spike	P	0 - 30
2399392	Glufosinate	3.67	Spike	P	0 - 30
2399392	Glyphosate	2.04	Spike	P	0 - 30
2399392	Sucralose	3.51	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P428314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400159	3-Hydroxycarbofuran	0.327	Spike	P	0 - 30
2400159	Aldicarb	1.17	Spike	P	0 - 30
2400159	Aldicarb Sulfone	2.22	Spike	P	0 - 30
2400159	Aldicarb Sulfoxide	0.233	Spike	P	0 - 30
2400159	Carbaryl	5.70	Spike	P	0 - 30
2400159	Carbofuran	0.580	Spike	P	0 - 30
2400159	Methiocarb	9.83	Spike	P	0 - 30
2400159	Methomyl	1.01	Spike	P	0 - 30
2400159	Oxamyl	13.7	Spike	P	0 - 30
2400159	Propoxur	3.67	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P428433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399997	2,4-D	3.19	Spike	P	0 - 30
2399997	2,4,5-T	4.27	Spike	P	0 - 30
2399997	Acetaminophen	0.756	Spike	P	0 - 30
2399997	Acetamiprid	11.2	Spike	P	0 - 30
2399997	Afidopyropen	8.09	Spike	P	0 - 30
2399997	Bentazon	15.7	Spike	P	0 - 30
2399997	Benzovindiflupyr	7.52	Spike	P	0 - 30
2399997	Carbamazepine	3.77	Spike	P	0 - 30
2399997	Clothianidin	2.22	Spike	P	0 - 30
2399997	Dinotefuran	0.350	Spike	P	0 - 30
2399997	Diuron	0.710	Spike	P	0 - 30
2399997	Fenuron	5.54	Spike	P	0 - 30
2399997	Fluridone	17.7	Spike	P	0 - 30
2399997	Hydrocodone	4.08	Spike	P	0 - 30
2399997	Ibuprofen	10.2	Spike	P	0 - 30
2399997	Imazapyr	1.33	Spike	P	0 - 30
2399997	Imidacloprid	2.33	Spike	P	0 - 30
2399997	Linuron	9.50	Spike	P	0 - 30
2399997	Mandestrobin	5.91	Spike	P	0 - 30
2399997	MCPP	15.0	Spike	P	0 - 30
2399997	Naproxen	11.3	Spike	P	0 - 30
2399997	Primidone	11.3	Spike	P	0 - 30
2399997	Pyraclostrobin	2.87	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P428433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399997	Silvex	6.71	Spike	P	0 - 30
2399997	Thiamethoxam	8.31	Spike	P	0 - 30
2399997	Tolfenpyrad	12.8	Spike	P	0 - 30
2399997	Triclopyr	5.12	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2400273
Field Sample ID: G2CE0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	88.5	P	30 - 160
EPA 8321B	Diuron-d6	88.8	P	30 - 160
EPA 8321B	Endothall-d6	95.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.1	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	68.7	P	30 - 160

Lab Sample ID: 2400274
Field Sample ID: G2CE0233

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.2	P	30 - 160
EPA 8321B	Diuron-d6	64.4	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	100	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.9	P	30 - 160
EPA 8321B	Primidone-d5	88.6	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Lab Sample ID: 2400275
Field Sample ID: G2CE0241

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.9	P	30 - 160
EPA 8321B	Diuron-d6	73.1	P	30 - 160
EPA 8321B	Endothall-d6	98.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	116	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.9	P	30 - 160
EPA 8321B	Primidone-d5	88.6	P	30 - 160
EPA 8321B	Sucralose-d6	91.3	P	30 - 160

Lab Sample ID: 2400276
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	51.1	P	30 - 160

Lab Sample ID: 2400277
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.3	P	30 - 160
EPA 8321B	Diuron-d6	57.8	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2400277
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	95.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.2	P	30 - 160
EPA 8321B	Primidone-d5	83.6	P	30 - 160
EPA 8321B	Sucralose-d6	96.7	P	30 - 160

Lab Sample ID: 2400278
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	93.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	113	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	85.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	80.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	101	F	30 - 101
EPA 8276	PCNB	97.4	P	48 - 121

Lab Sample ID: 2400279
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	122	P	20 - 200
EPA 8270E	Simazine-d10	118	P	62 - 142
EPA 8270E	Terbufos-d10	75.8	P	58 - 132
EPA 8270E	Terphenyl-d14	73.5	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A118606

Included Lab Sample IDs: 2400273, 2400274, 2400275, 2400277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	99.0	97.3	P/P	60 - 160
Sucralose	91.7	105	P/P	60 - 160
Sucralose	98.6	91.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A118625

Included Lab Sample IDs: 2400273, 2400274, 2400275, 2400277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	113	113	P/P	60 - 160
AMPA	114	120	P/P	60 - 160
Endothall	95.7	98.2	P/P	60 - 160
Glufosinate	100	96.3	P/P	60 - 160
Glufosinate	98.4	105	P/P	60 - 160
Glyphosate	108	118	P/P	60 - 160
Glyphosate	113	119	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A118631

Included Lab Sample IDs: 2400279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	120*		F	80 - 120
Alachlor	115		P	80 - 120
Ametryn	111		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	112		P	80 - 120
Butylate	98.4		P	80 - 120
Caffeine	94.0		P	80 - 120
Carbophenothion	95.8		P	80 - 120
Carfentrazone Ethyl	106		P	80 - 120
Chlorfenapyr	101		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	112		P	80 - 120
Coumaphos	93.2		P	80 - 120
Cyanazine	119		P	80 - 120
Cyprodinil	96.7		P	80 - 120
Demeton	99.5		P	80 - 120
Diazinon	99.6		P	80 - 120
Difenoconazole	110		P	80 - 120
Dimethenamid	115		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	95.9		P	80 - 120
Dithiopyr	109		P	80 - 120
EPTC	107		P	80 - 120
Ethion	114		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	115		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118631
Included Lab Sample IDs: 2400279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenbuconazole	98.1		P	80 - 120
Fipronil	118		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	112		P	80 - 120
Fipronil Sulfone	116		P	80 - 120
Fluazifop-P-butyl	98.2		P	80 - 120
Fludioxonil	115		P	80 - 120
Flumioxazin	108		P	80 - 120
Flutolanil	111		P	80 - 120
Fluxapyroxad	95.9		P	80 - 120
Fonofos	94.6		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	114		P	80 - 120
Iprodione	97.8		P	80 - 120
Loratadine	106		P	80 - 120
Malathion	114		P	80 - 120
Metaxyl	112		P	80 - 120
Metolachlor	117		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	110		P	80 - 120
Molinate	97.5		P	80 - 120
Myclobutanil	116		P	80 - 120
Naled	96.3		P	80 - 120
Napropamide	129*		F	80 - 120
Norflurazon	109		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	112		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	118		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	108		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	110		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	119		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	115		P	80 - 120
Propargite	92.1		P	80 - 120
Propiconazole	92.4		P	80 - 120
Pyraflufen Ethyl	88.2		P	80 - 120
Pyridaben	114		P	80 - 120
Pyriproxyfen	106		P	80 - 120
Simazine	96.5		P	80 - 120
Stirophos	120		P	80 - 120
Sulfentrazone	98.2		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	97.9		P	80 - 120
Terbuthylazine	104		P	80 - 120
Thiobencarb	112		P	80 - 120
Triadimefon	125*		F	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118647

Included Lab Sample IDs: 2400280, 2400281, 2400282, 2400283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	101	P/P	90 - 110
Aluminum	101	103	P/P	90 - 110
Antimony	105	105	P/P	90 - 110
Antimony	105	105	P/P	90 - 110
Arsenic	99.1	99.9	P/P	90 - 110
Arsenic	99.9	101	P/P	90 - 110
Barium	98.1	98.7	P/P	90 - 110
Barium	98.9	98.1	P/P	90 - 110
Beryllium	97.9	98.8	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Cadmium	101	100	P/P	90 - 110
Copper	101	102	P/P	90 - 110
Copper	102	104	P/P	90 - 110
Lead	104	105	P/P	90 - 110
Lead	104	104	P/P	90 - 110
Manganese	103	106	P/P	90 - 110
Manganese	106	108	P/P	90 - 110
Molybdenum	99.4	100	P/P	90 - 110
Molybdenum	99.7	99.4	P/P	90 - 110
Nickel	103	105	P/P	90 - 110
Selenium	96.9	98.0	P/P	90 - 110
Selenium	98.0	96.9	P/P	90 - 110
Silver	106	107	P/P	90 - 110
Silver	107	106	P/P	90 - 110
Thallium	103	104	P/P	90 - 110
Thallium	103	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118648

Included Lab Sample IDs: 2400279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.9		P	80 - 120
Avobenzene	91.0		P	80 - 120
Dechlorane 602	98.7		P	80 - 120
Dechlorane 603	86.7		P	80 - 120
Dechlorane Plus	89.7		P	80 - 120
Hexabromobenzene	98.7		P	80 - 120
Octinoxate	84.9		P	80 - 120
Oxybenzone	89.6		P	80 - 120
PBB-153	85.6		P	80 - 120
PBDE-47	87.3		P	80 - 120
PBDE-99	89.5		P	80 - 120
Pentabromotoluene	96.6		P	80 - 120
Tetradecachloro-m-terphenyl	95.5		P	80 - 120
Tri-o-cresyl Phosphate	99.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	87.1		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	86.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	95.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118672

Included Lab Sample IDs: 2400280, 2400281, 2400282, 2400283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.0	96.3	P/P	90 - 110
Beryllium	97.3	97.0	P/P	90 - 110
Boron	93.5	99.4	P/P	90 - 110
Boron	99.4	99.4	P/P	90 - 110
Chromium	103	104	P/P	90 - 110
Chromium	104	101	P/P	90 - 110
Cobalt	102	103	P/P	90 - 110
Cobalt	103	101	P/P	90 - 110
Nickel	101	97.7	P/P	90 - 110
Nickel	97.7	98.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118697

Included Lab Sample IDs: 2400278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	91.9		P	80 - 120
Alpha-BHC	98.0		P	80 - 120
Alpha-Chlordane	98.0		P	80 - 120
Beta-BHC	97.4		P	80 - 120
Beta-Cyfluthrin	94.3		P	80 - 120
Bifenthrin	92.0		P	80 - 120
Chlorothalonil	91.7		P	80 - 120
Cis-Nonachlor	95.2		P	80 - 120
Cypermethrin	93.0		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	99.0		P	80 - 120
DDE-p,p'	96.7		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	94.3		P	80 - 120
Deltamethrin	87.5		P	80 - 120
Dichlobenil	98.7		P	80 - 120
Dicofol	98.7		P	80 - 120
Dieldrin	95.7		P	80 - 120
Endosulfan I	93.6		P	80 - 120
Endosulfan II	92.0		P	80 - 120
Endosulfan Sulfate	96.6		P	80 - 120
Endrin	97.7		P	80 - 120
Endrin Aldehyde	97.2		P	80 - 120
Endrin Ketone	117		P	80 - 120
Esfenvalerate	91.5		P	80 - 120
Ethalfuralin	99.2		P	80 - 120
Fenpropathrin	94.5		P	80 - 120
Gamma-BHC	92.1		P	80 - 120
Gamma-Chlordane	96.1		P	80 - 120
Heptachlor	93.0		P	80 - 120
Heptachlor Epoxide	99.3		P	80 - 120
Hexachlorobenzene	99.9		P	80 - 120
Kepone	77.8*		F	80 - 120
Lambda-Cyhalothrin	95.7		P	80 - 120
Methoprene	94.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118697
Included Lab Sample IDs: 2400278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	94.6		P	80 - 120
MGK-264	98.5		P	80 - 120
Mirex	94.4		P	80 - 120
Oxychlordane	95.2		P	80 - 120
Permethrin	95.8		P	80 - 120
Phenothrin	95.6		P	80 - 120
Piperonyl Butoxide	96.3		P	80 - 120
Prallethrin	93.5		P	80 - 120
Tau-Fluvalinate	94.4		P	80 - 120
Tetramethrin	93.8		P	80 - 120
Trans-Nonachlor	95.4		P	80 - 120
Triclosan Methyl	96.0		P	80 - 120
Trifluralin	97.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118707
Included Lab Sample IDs: 2400279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	94.6		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118729
Included Lab Sample IDs: 2400280, 2400281, 2400282, 2400283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Calcium	101	100	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Iron	103	101	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Potassium	101	102	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	102	103	P/P	90 - 110
Sodium	103	104	P/P	90 - 110
Strontium	100	102	P/P	90 - 110
Strontium	100	100	P/P	90 - 110
Tin	99.1	100	P/P	90 - 110
Tin	99.2	99.1	P/P	90 - 110
Titanium	101	100	P/P	90 - 110
Titanium	99.4	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Vanadium	101	102	P/P	90 - 110
Zinc	102	103	P/P	90 - 110
Zinc	102	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A118768

Included Lab Sample IDs: 2400273, 2400274, 2400275, 2400277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.0	89.4	P/P	50 - 150
2,4,5-T	83.4	79.4	P/P	50 - 150
3-Hydroxycarbofuran	96.3	96.1	P/P	60 - 150
Acetaminophen	90.7	85.2	P/P	60 - 160
Acetamiprid	115	115	P/P	50 - 150
Afidopyropen	87.6	109	P/P	50 - 150
Aldicarb	85.7	106	P/P	60 - 150
Aldicarb Sulfone	97.6	94.1	P/P	50 - 150
Aldicarb Sulfoxide	104	88.9	P/P	50 - 150
Bentazon	102	101	P/P	50 - 160
Bentazon	96.7	107	P/P	50 - 160
Benzovindiflupyr	103	105	P/P	50 - 150
Carbamazepine	98.5	105	P/P	60 - 150
Carbaryl	120	114	P/P	60 - 150
Carbofuran	118	112	P/P	50 - 150
Clothianidin	94.4	101	P/P	60 - 150
Dinotefuran	98.2	97.3	P/P	50 - 150
Diuron	123	121	P/P	60 - 160
Fenuron	101	99.3	P/P	60 - 150
Fluridone	90.5	91.6	P/P	60 - 160
Hydrocodone	107	105	P/P	60 - 150
Ibuprofen	71.8	65.8	P/P	50 - 160
Imazapyr	106	107	P/P	50 - 150
Imidacloprid	96.8	93.1	P/P	60 - 150
Linuron	87.4	101	P/P	60 - 150
Mandestrobin	103	106	P/P	50 - 150
MCPP	102	99.5	P/P	50 - 150
Methiocarb	101	105	P/P	50 - 150
Methomyl	103	101	P/P	50 - 150
Naproxen	64.4	106	P/P	50 - 160
Oxamyl	93.4	96.3	P/P	50 - 150
Primidone	101	103	P/P	60 - 150
Propoxur	110	114	P/P	50 - 150
Pyraclostrobin	106	107	P/P	60 - 150
Silvex	106	108	P/P	50 - 150
Thiamethoxam	105	107	P/P	50 - 150
Tolfenpyrad	102	99.0	P/P	60 - 150
Triclopyr	93.2	85.4	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A118775

Included Lab Sample IDs: 2400278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.2		P	80 - 120
Toxaphene	106		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A118875
Included Lab Sample IDs: 2400278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	101		P	80 - 120
PCB-1260	100		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision	MS
			LCS	SMP			
EPA 200.7 Rev. 4.4	Calcium	103	101	103			1.77
	Iron	105	105	105	103		0.694
	Magnesium	103	103	106			1.51
	Potassium	104	101	103	102		1.40
	Sodium	104	104	107	105		1.89
	Strontium	99.6	98.6	100	100		1.50
	Tin	103	98.8	101	99.4		2.49
	Titanium	102	101	101	103		0.770
	Vanadium	102	101	102	103		1.02
	Zinc	102	100	99.9	105		0.194
EPA 200.8 Rev. 5.4	Aluminum	103	103	105	101		1.73
	Antimony	105	108	109	105		1.44
	Arsenic	101	102	103	101		1.55
	Barium	103	102	104	99.6		2.22
	Beryllium	99.1	96.1	93.7	95.8		2.51
	Boron	103	106	104	106		2.24
	Cadmium	102	105	104	104		1.15
	Chromium	105	106	105	108		1.43
	Cobalt	107	104	103	107		0.899
	Copper	103	99.9	101	105		1.32
	Lead	108	106	107	108		1.50
	Manganese	106	104	106	103		2.04
	Molybdenum	102	104	105	102		0.841
	Nickel	105	101	103	104		1.97
	Selenium	97.4	96.3	97.4	96.5		1.16
	Silver	109	110	109	108		0.892
	Thallium	100	99.1	106	99.6		6.56
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.6	81.0	90.3			10.8
	Acetochlor	82.9	69.8	72.5			3.77
EPA 8270E	Alachlor	95.7	105	111			5.95
	Aldrin	49.6	46.1	46.9			1.69
	Alpha-BHC	95.1	92.1	88.6			3.91
	Alpha-Chlordane	80.8	54.0	52.8			0.882
	Ametryn	113	115	107			7.47
	Atrazine	93.1	80.4	69.8			6.71
	Atrazine Desethyl	102	95.5	101			5.31
	Avobenzone	118	81.0	105			25.8
	Azinphos Methyl	83.3	54.6	69.6			24.3
	Azoxystrobin	118	111	130			16.1
	Beta-BHC	92.6	111	89.2			21.6
	Beta-Cyfluthrin	96.4	92.2	73.8			22.2
	Bifenthrin	67.9	56.2	59.3			5.29
	Bromacil	106	93.1	96.4			3.50
	Butylate	57.0	66.2	70.8			6.70
	Caffeine	112	129	112			10.5
	Carbophenothion	108	85.9	100			15.7
	Carfentrazone Ethyl	106	90.4	94.4			4.32
	Chlorfenapyr	92.0	68.4	84.8			21.5
	Chlorothalonil	70.3	93.7	63.8			38.1
	Chlorpyrifos Ethyl	84.4	57.4	56.3			1.93
	Chlorpyrifos Methyl	99.8	85.5	96.7			12.3
	Cis-Nonachlor	76.0	55.8	63.8			13.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Coumaphos	116	106	101			5.46
	Cyanazine	142	131	124			5.59
	Cypermethrin	92.4	84.3	69.5			19.2
	Cyprodinil	97.0	82.6	92.1			10.9
	Dacthal	95.7	95.6	88.0			8.22
	DDD-p,p'	71.9	52.8	58.5			10.3
	DDE-p,p'	77.1	59.8	67.4			12.1
	DDT-p,p'	81.2	68.8	66.8			2.94
	Dechlorane 602	96.7	74.3	77.2			3.80
	Dechlorane 603	86.9	76.3	80.4			5.31
	Dechlorane Plus	114	89.8	88.2			1.84
	Delta-BHC	90.1	110	86.9			23.3
	Deltamethrin	105	103	77.9			28.0
	Demeton	100	83.0	88.3			6.20
	Diazinon	114	113	107			5.40
	Dichlobenil	70.1	70.3	58.3			18.7
	Dicofol	82.9	73.0	71.2			2.57
	Dieldrin	79.0	64.3	71.6			10.9
	Difenoconazole	102	122	104			15.4
	Dimethenamid	105	81.0	92.0			12.8
	Dimethomorph	165	146	130			11.9
	Disulfoton	96.9	92.5	83.7			9.94
	Dithiopyr	108	91.7	105			13.4
	Endosulfan I	77.1	61.0	69.5			13.1
	Endosulfan II	81.7	65.0	73.0			11.6
	Endosulfan Sulfate	91.6	85.5	79.6			7.11
	Endrin	84.5	63.0	71.6			12.8
	Endrin Aldehyde	80.5	79.9	72.0			10.4
	Endrin Ketone	127	115	111			3.64
	EPTC	56.0	59.7	69.9			15.7
	Esfenvalerate	90.0	90.0	68.4			27.3
	Ethalfuralin	79.7	66.4	65.2			1.73
	Ethion	47.4	25.9	38.5			39.3
	Ethoprop	92.9	93.8	99.0			5.32
	Etridiazole	47.5	57.9	58.8			1.55
	Fenamiphos	77.9	50.8	50.7			0.175
	Fenbuconazole	99.2	88.3	94.1			6.36
	Fenpropathrin	86.2	76.3	66.0			14.4
	Fipronil	105	86.5	87.9			1.65
	Fipronil Desulfinyl	107	84.2	92.4			8.84
	Fipronil Sulfide	114	96.5	105			8.42
	Fipronil Sulfone	101	81.5	96.8			17.1
	Fluazifop-P-butyl	71.6	96.8	110			12.5
	Fludioxonil	92.7	68.4	75.5			9.86
	Flumioxazin	131	123	91.2			29.7
	Flutolanil	91.7	111	127			13.6
	Fluxapyroxad	96.3	60.4	69.2			13.6
	Fonofos	105	88.8	65.4			30.5
	Gamma-BHC	87.3	113	87.2			25.5
	Gamma-Chlordane	76.6	54.9	63.1			9.71
	Heptachlor	72.0	61.8	62.2			0.711
	Heptachlor Epoxide	84.7	69.1	63.3			6.21
	Hexabromobenzene	116	126	110			13.2
	Hexachlorobenzene	63.4	53.7	49.3			8.70

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Hexazinone	87.9	82.3	86.8			5.29
	Imazalil	97.9	110	67.6			47.8
	Iprodione	82.9	61.7	69.1			11.3
	Kepone	86.5	115	87.0			27.3
	Lambda-Cyhalothrin	80.2	83.2	67.3			21.2
	Loratadine	159	89.2	86.8			2.75
	Malathion	96.4	77.0	87.5			12.8
	Metalaxyl	97.8	83.2	83.3			0.194
	Methoprene	63.9	58.3	58.9			1.08
	Methoxychlor	93.2	86.0	78.2			9.54
	Metolachlor	112	95.1	101			6.13
	Metribuzin	111	47.1	78.9			50.5
	Mevinphos	87.7	89.0	90.6			1.83
	MGK-264	79.6	91.8	77.9			16.3
	Mirex	65.4	49.0	56.4			14.0
	Molinate	57.1	61.4	63.6			3.54
	Myclobutanil	97.8	79.0	92.2			15.4
	Naled	45.5	46.6	50.9			8.82
	Napropamide	78.9	49.9	61.4			20.6
	Norflurazon	83.6	65.6	84.9			25.8
	Octinoxate	98.6	77.5	80.0			3.20
	Oxadiazon	96.1	73.1	82.3			11.8
	Oxybenzone	93.0	81.2	81.8			0.787
	Oxychlordane	74.1	59.4	63.1			5.97
	Oxyfluorfen	106	101	108			6.72
	Parathion Ethyl	95.9	92.2	103			11.2
	Parathion Methyl	92.3	96.2	95.7			0.511
	PBB-153	102	81.7	88.4			7.86
	PBDE-47	97.5	78.6	82.7			5.17
	PBDE-99	89.3	69.2	74.3			7.16
	PCB-1016	81.3	84.8	99.4			15.9
	PCB-1260	75.0	77.8	82.8			6.24
	Pendimethalin	106	127	136			7.06
	Pentabromotoluene	103	106	108			1.29
	Permethrin	86.3	81.0	66.1			20.3
	Phenothrin	59.5	70.3	53.8			26.7
	Phenytoin	40.4	33.0	35.4			6.90
	Phorate	97.5	147	130			12.4
	Piperonyl Butoxide	93.9	98.6	89.4			9.78
	Prallethrin	68.1	59.0	63.9			7.98
	Prodiamine	70.4	62.5	67.4			7.51
	Prometon	57.4	55.4	57.3			3.40
	Prometryn	124	134	109			20.2
	Pronamide	115	107	109			1.91
	Propanil	108	99.6	109			9.24
	Propargite	71.3	35.7	35.3			1.00
	Propiconazole	60.9	58.8	69.3			16.5
	Pyraflufen Ethyl	74.9	71.9	77.8			7.80
	Pyridaben	103	89.0	83.5			6.37
	Pyriproxyfen	93.7	53.2	67.4			23.6
	Simazine	89.5	74.6	81.3			7.81
	Stirophos	64.5	43.3	58.4			29.7
	Sulfentrazone	73.2	70.9	92.4			26.4
	Tau-Fluvalinate	84.3	87.4	66.1			27.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tebuconazole	57.3	33.3	38.7			14.9
	Terbufos	111	121	115			5.60
	Terbutylazine	86.4	84.7	79.7			6.08
	Tetradecachloro-m-terphenyl	159	152	97.0			44.4
	Tetramethrin	73.6	76.9	66.2			14.9
	Thiobencarb	102	82.2	92.2			11.5
	Trans-Nonachlor	77.5	57.5	62.9			7.14
	Tri-o-cresyl Phosphate	106	110	107			2.84
	Triadimefon	105	83.2	91.7			9.79
	Triclosan Methyl	79.7	63.9	72.4			12.5
	Trifluralin	82.6	70.3	70.0			0.317
	Tris(1-chloro-2-propyl) phosphate (TCPP)	105	77.2	78.6			1.87
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.7	74.4	76.4			2.56
	Tris(2-chloroethyl) phosphate (TCEP)	102	103	100			2.48
EPA 8276	Chlordane	82.6	87.4	87.6			0.232
	Toxaphene	95.7	111	111			0.723
EPA 8321B	2,4-D	98.4	89.5	92.4			3.19
	2,4,5-T	84.6	103	108			4.27
	3-Hydroxycarbofuran	70.0	69.2	69.5			0.327
	Acesulfame K	98.8	93.0	93.7			0.734
	Acetaminophen	69.2	94.4	95.1			0.756
	Acetamiprid	79.1	49.8	44.5			11.2
	Afidopyropen	58.0	72.9	79.0			8.09
	Aldicarb	62.7	44.7	44.1			1.17
	Aldicarb Sulfone	81.2	73.8	72.2			2.22
	Aldicarb Sulfoxide	98.4	32.3	32.4			0.233
	AMPA	118	118	117			0.933
	Bentazon	80.6					15.7
	Benzovindiflupyr	81.4	89.0	82.6			7.52
	Carbamazepine	78.5	57.5	59.8			3.77
	Carbaryl	86.4	71.3	67.3			5.70
	Carbofuran	76.3	51.1	50.8			0.580
	Clothianidin	82.7	73.2	74.9			2.22
	Dinotefuran	88.1	49.4	49.6			0.350
	Diuron	99.6	71.7	71.2			0.710
	Endothall	89.3	96.7	98.9			2.21
	Fenuron	79.1	38.4	40.6			5.54
	Fluridone	64.9	69.0	57.7			17.7
	Glufosinate	98.7	95.9	99.4			3.67
	Glyphosate	124	110	107			2.04
	Hydrocodone	83.7	46.2	44.4			4.08
	Ibuprofen	59.7	61.7	55.7			10.2
	Imazapyr	87.2	71.1	68.9			1.33
	Imidacloprid	82.3	99.4	102			2.33
	Linuron	70.3	74.8	68.0			9.50
	Mandestrobin	83.2	89.1	83.9			5.91
	MCPP	96.8	104	121			15.0
	Methiocarb	76.1	71.6	64.9			9.83
	Methomyl	85.1	54.3	53.7			1.01
	Naproxen	66.0	66.7	59.6			11.3
	Oxamyl	80.2	62.7	71.9			13.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8321B	Primidone	83.8	69.6	78.0		11.3
	Propoxur	76.8	47.6	45.9		3.67
	Pyraclostrobin	74.4	80.2	77.9		2.87
	Silvex	100	114	106		6.71
	Sucralose	112	97.5	93.3		3.51
	Thiamethoxam	80.2	53.9	58.6		8.31
	Tolfenpyrad	53.0	49.2	55.9		12.8
	Triclopyr	95.8	123	117		5.12

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	2400280, 2400281, 2400282, 2400283
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2400280, 2400281, 2400282, 2400283
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2400279
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2400278
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2400279
EPA 8270E	PCBs in water matrices by GC/MS/MS	2400278
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2400278
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2400276
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2400273, 2400274, 2400275, 2400277
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2400280, 2400281, 2400282, 2400283

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	04/13/2023	04/14/2023 13:20	George D Taylor	04/21/2023 18:48	McKinley C Carter	2400280
	04/13/2023	04/14/2023 13:20	George D Taylor	04/21/2023 18:55	McKinley C Carter	2400281
	04/13/2023	04/14/2023 13:20	George D Taylor	04/21/2023 19:03	McKinley C Carter	2400282
	04/13/2023	04/14/2023 13:20	George D Taylor	04/21/2023 19:38	McKinley C Carter	2400283
	04/13/2023	04/14/2023 13:20	George D Taylor	04/21/2023 19:45	McKinley C Carter	2400283
EPA 200.8 Rev. 5.4	04/13/2023	04/14/2023 13:20	George D Taylor	04/18/2023 21:17	Conrad Hartmann	2400280
	04/13/2023	04/14/2023 13:20	George D Taylor	04/18/2023 22:10	Conrad Hartmann	2400281
	04/13/2023	04/14/2023 13:20	George D Taylor	04/18/2023 22:19	Conrad Hartmann	2400282
	04/13/2023	04/14/2023 13:20	George D Taylor	04/18/2023 22:28	Conrad Hartmann	2400283
	04/13/2023	04/14/2023 13:20	George D Taylor	04/19/2023 15:30	Conrad Hartmann	2400280
	04/13/2023	04/14/2023 13:20	George D Taylor	04/19/2023 16:09	Conrad Hartmann	2400281
	04/13/2023	04/14/2023 13:20	George D Taylor	04/19/2023 16:16	Conrad Hartmann	2400282
EPA 8270E	04/13/2023	04/14/2023 13:20	George D Taylor	04/19/2023 16:22	Conrad Hartmann	2400283
	04/13/2023	04/14/2023 08:00	Fe-Val Siddell	04/18/2023 01:01	Vandana T. Nagar	2400279
	04/13/2023	04/14/2023 08:00	Fe-Val Siddell	04/18/2023 17:59	Arthur Maknenko	2400279
	04/13/2023	04/14/2023 08:00	Fe-Val Siddell	04/18/2023 23:33	Vandana T. Nagar	2400279
	04/13/2023	04/18/2023 08:00	Fe-Val Siddell	04/20/2023 22:23	Michael Poppell	2400278
EPA 8276	04/13/2023	04/18/2023 08:00	Fe-Val Siddell	04/23/2023 22:37	Julie Wi	2400278
	04/13/2023	04/18/2023 08:00	Fe-Val Siddell	04/25/2023 07:46	Arthur Maknenko	2400278
EPA 8321B	04/13/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 12:56	Juyoung Kim	2400273
	04/13/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 13:15	Juyoung Kim	2400274
	04/13/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 13:33	Juyoung Kim	2400275
	04/13/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 13:52	Juyoung Kim	2400277
	04/13/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 18:34	Juyoung Kim	2400274
	04/13/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 18:53	Juyoung Kim	2400275
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/14/2023 15:39	Manjita Shrestha	2400273
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/14/2023 15:52	Manjita Shrestha	2400274
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/14/2023 16:05	Manjita Shrestha	2400275
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/14/2023 16:18	Manjita Shrestha	2400277
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/14/2023 21:33	Manjita Shrestha	2400273
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/15/2023 09:12	Manjita Shrestha	2400273
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/15/2023 09:26	Manjita Shrestha	2400274
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/15/2023 09:40	Manjita Shrestha	2400275
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/15/2023 09:54	Manjita Shrestha	2400277
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/15/2023 12:42	Manjita Shrestha	2400274
	04/13/2023	04/14/2023 13:00	Hoor Shaik	04/17/2023 21:16	Juyoung Kim	2400276
SM 2340 B-2011	04/13/2023			04/21/2023 18:48	McKinley C Carter	2400280
	04/13/2023			04/21/2023 18:55	McKinley C Carter	2400281
	04/13/2023			04/21/2023 19:03	McKinley C Carter	2400282
	04/13/2023			04/21/2023 19:38	McKinley C Carter	2400283