Chemical Analysis Report

SE-DIST-2022-09-23-02

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

Event Description: **Vero Beach**
Request ID: **RQ-2022-09-19-19**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Jordan Skaggs

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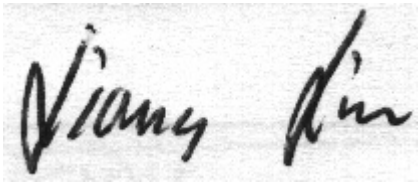
Certified by: Liang Lin, Environmental Administrator

Date Certified: 14-OCT-2022 09:56



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 group are included in this report: 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: Vero North Canal @ 66th Ave **Collection Date/Time: 09/22/2022 10:25**

Field ID: G5SE0069 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359071	EPA 8321B	2,4-D	0.046		ug/L	P420123	
		Acesulfame K	0.10	U	ug/L	P419980	
		2,4,5-T	0.0040	U	ug/L	P420123	
		AMPA	2.7		ug/L	P419980	
		Acetaminophen	0.0080	U	ug/L	P420123	
		Acetamiprid	0.0020	U	ug/L	P420123	
		Endothall	0.25	U	ug/L	P419980	
		Glufosinate	0.10	U	ug/L	P419980	
		Glyphosate	2.2		ug/L	P419980	
		Afidopyropen	0.0020	U	ug/L	P420123	
		Bentazon	0.040		ug/L	P420123	
		Sucralose	0.11		ug/L	P419980	
		Benzovindiflupyr	0.0020	U	ug/L	P420123	
		Carbamazepine	0.0011	I	ug/L	P420123	
		Clothianidin	0.0072	I	ug/L	P420123	
		Dinotefuran	0.0020	U	ug/L	P420123	
		Diuron	0.20		ug/L	P420123	
		Fenuron	0.032	U	ug/L	P420123	
		Fluridone	0.0033		ug/L	P420123	
		Imazapyr	0.12		ug/L	P420123	
		Hydrocodone	0.0020	U	ug/L	P420123	
		Ibuprofen	0.020	U	ug/L	P420123	
		Imidacloprid	0.48		ug/L	P420123	
		Linuron	0.0040	U	ug/L	P420123	
		Mandestrobin	0.0020	U	ug/L	P420123	
		MCPP	0.0020	U	ug/L	P420123	
		Naproxen	0.0080	U	ug/L	P420123	
		Primidone	0.0040	U	ug/L	P420123	
		Pyraclostrobin	0.0020	U	ug/L	P420123	
		Silvex	0.0040	U	ug/L	P420123	
		Thiamethoxam	0.016		ug/L	P420123	
		Tolfenpyrad	0.0020	U	ug/L	P420123	
		Triclopyr	0.0040	U	ug/L	P420123	

Sample Location: North Canal @ US1 **Collection Date/Time: 09/22/2022 10:45**

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359025	EPA 8321B	Aldicarb	0.020	U	ug/L	P420045	
		Aldicarb Sulfone	0.0020	U	ug/L	P420045	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P420045	
		Carbaryl	0.0020	U	ug/L	P420045	
		Carbofuran	0.0020	U	ug/L	P420045	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P420045	
		Methiocarb	0.0020	U	ug/L	P420045	
		Methomyl	0.0020	U	ug/L	P420045	
		Oxamyl	0.0020	U	ug/L	P420045	
		Propoxur	0.0020	U	ug/L	P420045	
2359026		2,4-D	0.054		ug/L	P420123	
		Acesulfame K	0.10	U	ug/L	P419980	
		2,4,5-T	0.0040	U	ug/L	P420123	
		AMPA	2.8		ug/L	P419980	
		Acetaminophen	0.0080	U	ug/L	P420123	
		Acetamiprid	0.0020	U	ug/L	P420123	
		Endothall	0.25	U	ug/L	P419980	
		Glufosinate	0.10	U	ug/L	P419980	
		Glyphosate	2.9		ug/L	P419980	
		Afidopyropen	0.0020	U	ug/L	P420123	
		Bentazon	0.086		ug/L	P420123	
		Sucralose	0.77		ug/L	P419980	
		Benzovindiflupyr	0.0020	U	ug/L	P420123	
		Carbamazepine	0.0022	I	ug/L	P420123	
		Clothianidin	0.0056	I	ug/L	P420123	
		Dinotefuran	0.0036	I	ug/L	P420123	
		Diuron	0.096		ug/L	P420123	
		Fenuron	0.032	U	ug/L	P420123	
		Fluridone	0.064		ug/L	P420123	
		Imazapyr	0.15		ug/L	P420123	
		Hydrocodone	0.0020	U	ug/L	P420123	
		Ibuprofen	0.020	U	ug/L	P420123	
		Imidacloprid	0.54		ug/L	P420123	
		Linuron	0.0040	U	ug/L	P420123	
		Mandestrobin	0.0020	U	ug/L	P420123	
		MCPP	0.0020	U	ug/L	P420123	
		Naproxen	0.0080	U	ug/L	P420123	
		Primidone	0.0040	U	ug/L	P420123	
		Pyraclostrobin	0.0020	U	ug/L	P420123	
		Silvex	0.0040	U	ug/L	P420123	
		Thiamethoxam	0.023		ug/L	P420123	
		Tolfenpyrad	0.0020	U	ug/L	P420123	
		Triclopyr	0.0040	U	ug/L	P420123	
2359027	EPA 8270E	Aldrin	0.68	U	ng/L	P420283	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359027	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P420283	
		Alpha-Chlordane	0.21	U	ng/L	P420283	
		PCB-1016	2.1	U	ng/L	P420283	
		Beta-BHC	0.10	U	ng/L	P420283	
		PCB-1221	2.1	U	ng/L	P420283	
		Beta-Cyfluthrin	1.3	U	ng/L	P420283	
		PCB-1232	2.1	U	ng/L	P420283	
		Bifenthrin	0.52	U	ng/L	P420283	
		PCB-1242	2.1	U	ng/L	P420283	
		PCB-1248	2.1	U	ng/L	P420283	
		Chlorothalonil	1.3	U	ng/L	P420283	
		PCB-1254	2.1	U	ng/L	P420283	
		Cis-Nonachlor	0.21	U	ng/L	P420283	
		PCB-1260	2.1	U	ng/L	P420283	
		Cypermethrin	1.6	U	ng/L	P420283	
		Dacthal	0.16	U	ng/L	P420283	
		DDD-p,p'	0.26	U	ng/L	P420283	
		DDE-p,p'	0.21	U	ng/L	P420283	
		DDT-p,p'	0.26	U	ng/L	P420283	
		Delta-BHC	0.42	U	ng/L	P420283	
		Deltamethrin	1.3	U	ng/L	P420283	
		Dichlobenil	0.26	U	ng/L	P420283	
		Dicofol	1.3	U	ng/L	P420283	
		Dieldrin	0.42	U	ng/L	P420283	
		Endosulfan I	0.42	U	ng/L	P420283	
		Endosulfan II	0.42	U	ng/L	P420283	
		Endosulfan Sulfate	0.31	U	ng/L	P420283	
		Endrin	0.42	U	ng/L	P420283	
		Endrin Aldehyde	0.78	U	ng/L	P420283	
		Endrin Ketone	0.42	U	ng/L	P420283	
		Esfenvalerate	0.78	U	ng/L	P420283	
		Ethalfluralin	0.16	U	ng/L	P420283	
		Fenpropathrin	0.26	U	ng/L	P420283	
		Gamma-BHC	0.13	U	ng/L	P420283	
		Gamma-Chlordane	0.21	U	ng/L	P420283	
		Heptachlor	0.21	U	ng/L	P420283	
		Heptachlor Epoxide	0.26	U	ng/L	P420283	
		Hexachlorobenzene**	1.0	U	ng/L	P420283	
		Kepone	5.2	U	ng/L	P420283	
		Lambda-Cyhalothrin	0.78	U	ng/L	P420283	
		Methoprene	0.78	U	ng/L	P420283	
		Methoxychlor	0.31	U	ng/L	P420283	
		MGK-264	0.21	U	ng/L	P420283	
		Mirex	0.36	U	ng/L	P420283	
		Oxychlordane	0.31	U	ng/L	P420283	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359027	EPA 8270E	Permethrin	1.7	U	ng/L	P420283	
		Phenothrin	0.94	U	ng/L	P420283	
		Piperonyl Butoxide	0.56	I	ng/L	P420283	
		Prallethrin	2.1	U	ng/L	P420283	
		Tau-Fluvalinate	0.26	U	ng/L	P420283	
		Tetramethrin	0.78	UJ	ng/L	P420283	CCV
		Trans-Nonachlor	0.21	U	ng/L	P420283	
		Triclosan Methyl	0.16	U	ng/L	P420283	
		Trifluralin	0.21	U	ng/L	P420283	
	EPA 8276	Chlordane	2.6	U	ng/L	P420283	
		Toxaphene	16	U	ng/L	P420283	
2359028	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P420144	
		Acetochlor	0.24	U	ng/L	P420144	
		Octinoxate**	19	U	ng/L	P420144	
		Alachlor	0.24	U	ng/L	P420144	
		Avobenzone**	95	U	ng/L	P420144	
		Ametryn	0.57	U	ng/L	P420144	
		Atrazine	19		ng/L	P420144	
		PBDE-47**	3.8	U	ng/L	P420144	
		Atrazine Desethyl	1.4	U	ng/L	P420144	
		PBDE-99**	4.8	U	ng/L	P420144	
		Azinphos Methyl	1.9	U	ng/L	P420144	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P420144	
		Azoxystrobin	2.5	J	ng/L	P420144	
		Bromacil	6.1		ng/L	P420144	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P420144	
		Butylate	0.38	U	ng/L	P420144	
		Dechlorane Plus**	29	U	ng/L	P420144	
		Caffeine**	18	I	ng/L	P420144	
		Carbophenothion	0.19	U	ng/L	P420144	
		Carfentrazone Ethyl	0.095	U	ng/L	P420144	
		Chlorfenapyr	0.17	U	ng/L	P420144	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P420144	
		Chlorpyrifos Methyl	0.048	U	ng/L	P420144	
		Coumaphos	0.48	U	ng/L	P420144	
		Cyanazine	3.1	U	ng/L	P420144	
		Cyprodinil	0.095	U	ng/L	P420144	
		Demeton	1.4	U	ng/L	P420144	
		Diazinon	0.12	U	ng/L	P420144	
		Difenoconazole	0.57	U	ng/L	P420144	
		Dimethenamid	0.095	U	ng/L	P420144	
		Dimethomorph	0.17	U	ng/L	P420144	
		Disulfoton	0.48	U	ng/L	P420144	
		Dithiopyr	0.59	U	ng/L	P420144	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359028	EPA 8270E	EPTC	1.2	U	ng/L	P420144	
		Ethion	0.14	U	ng/L	P420144	
		Ethoprop	0.095	U	ng/L	P420144	
		Etridiazole	0.14	U	ng/L	P420144	
		Fenamiphos	0.48	U	ng/L	P420144	
		Fenbuconazole	0.59		ng/L	P420144	
		Fipronil	0.24	U	ng/L	P420144	
		Fipronil Desulfinyl**	0.36	I	ng/L	P420144	
		Fipronil Sulfide	0.22	I	ng/L	P420144	
		Fipronil Sulfone	0.61		ng/L	P420144	
		Fluazifop-P-butyl	0.095	U	ng/L	P420144	
		Fludioxonil	0.16	I	ng/L	P420144	
		Flumioxazin	4.3	U	ng/L	P420144	
		Flutolanil	1.3		ng/L	P420144	
		Fluxapyroxad	0.24	I	ng/L	P420144	
		Fonofos	0.19	U	ng/L	P420144	
		Hexazinone	1.7	I	ng/L	P420144	
		Imazalil	0.71	U	ng/L	P420144	
		Iprodione	0.57	U	ng/L	P420144	
		Loratadine**	0.33	U	ng/L	P420144	
		Malathion	0.33	U	ng/L	P420144	
		Metalaxyl	4.8		ng/L	P420144	
		Metolachlor	8.0		ng/L	P420144	
		Metribuzin	1.4	U	ng/L	P420144	
		Mevinphos	1.0	U	ng/L	P420144	
		Molinate	0.29	U	ng/L	P420144	
		Myclobutanil	0.24	U	ng/L	P420144	
		Naled	1.4	U	ng/L	P420144	
		Napropamide	0.38	U	ng/L	P420144	
		Norflurazon	18		ng/L	P420144	
		Oxadiazon	4.6		ng/L	P420144	
		Oxyfluorfen	0.14	U	ng/L	P420144	
		Parathion Ethyl	0.24	U	ng/L	P420144	
		Parathion Methyl	0.52	U	ng/L	P420144	
		Pendimethalin	0.95	U	ng/L	P420144	
		Phenytoin**	3.3	U	ng/L	P420144	
		Phorate	0.50	U	ng/L	P420144	
		Prodiamine	0.17	U	ng/L	P420144	
		Prometon	0.86	U	ng/L	P420144	
		Prometryn	0.19	U	ng/L	P420144	RPD
		Pronamide	0.14	U	ng/L	P420144	
		Propanil	0.12	U	ng/L	P420144	
		Propargite	1.4	U	ng/L	P420144	
		Propiconazole	0.48	U	ng/L	P420144	
		Pyraflufen Ethyl	0.24	U	ng/L	P420144	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359028	EPA 8270E	Pyridaben	0.43	U	ng/L	P420144	RPD
		Pyriproxyfen	0.12	U	ng/L	P420144	
		Simazine	0.48	U	ng/L	P420144	
		Stirophos	0.12	U	ng/L	P420144	
		Sulfentrazone	23		ng/L	P420144	
		Tebuconazole	0.48	U	ng/L	P420144	
		Terbufos	0.095	U	ng/L	P420144	
		Terbuthylazine	0.40	U	ng/L	P420144	
		Thiobencarb	0.57	U	ng/L	P420144	
		Triadimefon	0.24	U	ng/L	P420144	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Estimated value for azoxystrobin due to internal standard recovery exceeding control limits.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P420144

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	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P420144

Component	Result	Code	Units
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P420144

Component	Result	Code	Units
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	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	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P420144

Component	Result	Code	Units
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E
Batch ID: P420283

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P420283

Component	Result	Code	Units
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
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	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
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P420283

Component	Result	Code	Units
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: P420283

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

Reference Method: EPA 8321B
Batch ID: P419980

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P420045

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: P420123

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	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P420144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	76.5		P	26 - 165
Acetochlor	91.1		P	69 - 123
Alachlor	77.5		P	65 - 118
Ametryn	76.7		P	58 - 141
Atrazine	88.8		P	73 - 118
Atrazine Desethyl	53.5		P	32 - 125
Avobenzone	74.3		P	37 - 178
Azinphos Methyl	94.6		P	36 - 197
Azoxystrobin	104		P	58 - 226
Bromacil	60.1		P	48 - 120
Butylate	53.9		P	27 - 85.0
Caffeine	90.8		P	40 - 137
Carbophenothion	81.1		P	54 - 132
Carfentrazone Ethyl	88.1		P	60 - 142
Chlorfenapyr	80.0		P	53 - 117
Chlorpyrifos Ethyl	87.8		P	59 - 116
Chlorpyrifos Methyl	99.8		P	66 - 119
Coumaphos	98.3		P	11 - 234
Cyanazine	88.9		P	61 - 248
Cyprodinil	79.3		P	50 - 147
Dechlorane Plus	108		P	50 - 150
Demeton	77.5		P	30 - 138
Diazinon	89.7		P	67 - 126
Difenoconazole	105		P	38 - 205
Dimethenamid	70.8		P	57 - 111
Dimethomorph	99.5		P	16 - 212
Disulfoton	100		P	46 - 126
Dithiopyr	81.3		P	62 - 115
EPTC	47.2		P	28 - 80.0
Ethion	67.6		P	24 - 122
Ethoprop	83.8		P	62 - 113
Etridiazole	46.4		P	28 - 92.0
Fenamiphos	95.0		P	57 - 128
Fenbuconazole	83.7		P	52 - 155
Fipronil	83.6		P	63 - 130
Fipronil Desulfinyl	81.3		P	61 - 130
Fipronil Sulfide	63.7		P	56 - 117
Fipronil Sulfone	68.0		P	52 - 118
Fluazifop-P-butyl	86.6		P	61 - 128
Fludioxonil	81.6		P	59 - 129
Flumioxazin	124		P	30 - 250
Flutolanil	79.5		P	53 - 127
Fluxapyroxad	79.9		P	42 - 132
Fonofos	88.2		P	61 - 110
Hexazinone	81.5		P	46 - 139
Imazalil	101		P	40 - 139
Iprodione	92.3		P	40 - 146
Loratadine	96.6		P	10 - 224
Malathion	106		P	61 - 135
Metalaxyl	76.9		P	58 - 121
Metolachlor	81.9		P	64 - 118
Metribuzin	99.5		P	45 - 245

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P420144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	68.7		P	49 - 118
Molinate	68.4		P	42 - 92.0
Myclobutanil	81.4		P	55 - 127
Naled	93.6		P	10 - 114
Napropamide	69.8		P	39 - 121
Norflurazon	66.9		P	55 - 129
Octinoxate	68.0		P	21 - 159
Oxadiazon	69.6		P	54 - 115
Oxybenzone	69.0		P	41 - 142
Oxyfluorfen	103		P	64 - 139
Parathion Ethyl	89.4		P	70 - 111
Parathion Methyl	107		P	76 - 136
PBDE-47	67.6		P	27 - 144
PBDE-99	74.4		P	18 - 150
Pendimethalin	75.1		P	52 - 118
Phenytoin	18.2		P	10 - 162
Phorate	75.7		P	40 - 122
Prodiamine	42.0		P	26 - 141
Prometon	117		P	54 - 122
Prometryn	126		P	61 - 128
Pronamide	93.4		P	72 - 121
Propanil	79.4		P	45 - 144
Propargite	64.1		P	10 - 199
Propiconazole	65.5		P	56 - 127
Pyraflufen Ethyl	69.4		P	56 - 140
Pyridaben	94.9		P	26 - 211
Pyriproxyfen	74.2		P	33 - 194
Simazine	88.5		P	67 - 121
Stirophos	67.4		P	20 - 142
Sulfentrazone	33.0		P	21 - 144
Tebuconazole	50.6		P	10 - 122
Terbufos	104		P	60 - 129
Terbuthylazine	87.5		P	69 - 113
Thiobencarb	76.1		P	51 - 120
Tri-o-cresyl Phosphate	67.6		P	31 - 144
Triadimefon	83.5		P	56 - 114

Reference Method: EPA 8270E
Batch ID: P420283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	40.1		P	10 - 92.0
Alpha-BHC	81.4		P	75 - 107
Alpha-Chlordane	66.8		P	50 - 108
Beta-BHC	95.0		P	36 - 138
Beta-Cyfluthrin	47.4		P	20 - 161
Bifenthrin	30.4		P	10 - 119
Chlorothalonil	98.0		P	26 - 186
Cis-Nonachlor	59.7		P	42 - 119
Cypermethrin	49.9		P	22 - 150
Dacthal	81.8		P	72 - 119
DDD-p,p'	68.0		P	45 - 107

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P420283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	70.5		P	48 - 106
DDT-p,p'	63.8		P	48 - 110
Delta-BHC	89.9		P	54 - 140
Deltamethrin	48.9		P	22 - 189
Dichlobenil	78.1		P	36 - 117
Dicofol	75.3		P	46 - 155
Dieldrin	67.4		P	54 - 110
Endosulfan I	74.2		P	59 - 105
Endosulfan II	71.3		P	51 - 118
Endosulfan Sulfate	82.0		P	57 - 121
Endrin	70.6		P	10 - 120
Endrin Aldehyde	75.4		P	34 - 118
Endrin Ketone	80.8		P	69 - 177
Esfenvalerate	44.0		P	23 - 168
Ethalfluralin	64.9		P	49 - 99.0
Fenpropathrin	53.2		P	34 - 117
Gamma-BHC	90.9		P	72 - 117
Gamma-Chlordane	62.1		P	43 - 106
Heptachlor	56.2		P	41 - 98.0
Heptachlor Epoxide	69.9		P	57 - 106
Hexachlorobenzene	61.9		P	36 - 99.0
Kepone	146		P	16 - 215
Lambda-Cyhalothrin	35.1		P	21 - 177
Methoprene	39.2		P	10 - 119
Methoxychlor	65.9		P	60 - 112
MGK-264	69.1		P	26 - 122
Mirex	50.3		P	10 - 169
Oxychlordane	67.4		P	43 - 105
PCB-1016	83.8		P	48 - 112
PCB-1260	82.2		P	44 - 118
Permethrin	47.4		P	24 - 148
Phenothrin	31.8		P	10 - 106
Piperonyl Butoxide	91.6		P	10 - 139
Prallethrin	65.3		P	17 - 109
Tau-Fluvalinate	32.0		P	13 - 131
Tetramethrin	64.0		P	10 - 132
Trans-Nonachlor	61.3		P	44 - 106
Triclosan Methyl	72.8		P	59 - 109
Trifluralin	64.6		P	44 - 101

Reference Method: EPA 8276
Batch ID: P420283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	69.6		P	61 - 116
Toxaphene	87.4		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P419980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.9		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P419980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	112		P	40 - 150
Endothall	97.7		P	40 - 150
Glufosinate	91.2		P	40 - 150
Glyphosate	109		P	40 - 150
Sucralose	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P420045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	80.8		P	30 - 160
Aldicarb	44.6		P	30 - 150
Aldicarb Sulfone	92.1		P	30 - 160
Aldicarb Sulfoxide	58.9		P	30 - 160
Carbaryl	64.8		P	30 - 160
Carbofuran	63.7		P	30 - 160
Methiocarb	74.0		P	30 - 160
Methomyl	83.5		P	30 - 160
Oxamyl	80.2		P	30 - 160
Propoxur	58.8		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P420123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	74.2		P	30 - 160
2,4,5-T	62.5		P	30 - 160
Acetaminophen	87.8		P	30 - 150
Acetamiprid	79.9		P	30 - 160
Afidopyropen	70.6		P	30 - 160
Bentazon	38.2		P	30 - 150
Benzovindiflupyr	78.3		P	30 - 160
Carbamazepine	76.3		P	30 - 160
Clothianidin	91.9		P	30 - 160
Dinotefuran	95.4		P	30 - 160
Diuron	70.6		P	30 - 160
Fenuron	96.9		P	30 - 160
Fluridone	91.9		P	30 - 160
Hydrocodone	89.2		P	30 - 160
Ibuprofen	58.2		P	30 - 160
Imazapyr	82.9		P	30 - 160
Imidacloprid	120		P	30 - 160
Linuron	72.7		P	30 - 160
Mandestrobin	94.5		P	30 - 160
MCPP	78.3		P	30 - 160
Naproxen	70.0		P	30 - 160
Primidone	86.3		P	30 - 160
Pyraclostrobin	77.5		P	30 - 160
Silvex	63.2		P	30 - 160
Thiamethoxam	95.4		P	30 - 160
Tolfenpyrad	45.2		P	30 - 160
Triclopyr	66.9		P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P420144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358759	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	53.3	65.5	P/P	26 - 165
2358759	Acetochlor	96.9	92.0	P/P	67 - 124
2358759	Alachlor	80.5	81.6	P/P	60 - 120
2358759	Ametryn	81.7	102	P/P	54 - 216
2358759	Atrazine	89.8	88.8	P/P	66 - 128
2358759	Atrazine Desethyl	39.3	35.2	P/P	15 - 122
2358759	Avobenzone	69.0	85.9	P/P	37 - 178
2358759	Azinphos Methyl	92.8	102	P/P	40 - 292
2358759	Azoxystrobin	112	111	P/P	35 - 220
2358759	Bromacil	57.8	53.4	P/P	45 - 127
2358759	Butylate	56.9	49.7	P/P	20 - 83.0
2358759	Caffeine	92.5	97.0	P/P	10 - 194
2358759	Carbophenothion	87.6	89.4	P/P	57 - 127
2358759	Carfentrazone Ethyl	88.5	88.0	P/P	51 - 141
2358759	Chlorfenapyr	76.3	79.2	P/P	46 - 111
2358759	Chlorpyrifos Ethyl	84.9	84.8	P/P	52 - 120
2358759	Chlorpyrifos Methyl	97.1	92.9	P/P	63 - 119
2358759	Coumaphos	63.0	62.1	P/P	10 - 228
2358759	Cyanazine	105	94.6	P/P	59 - 241
2358759	Cyprodinil	79.4	80.8	P/P	47 - 146
2358759	Dechlorane Plus	90.1	102	P/P	50 - 150
2358759	Demeton	79.6	81.5	P/P	40 - 136
2358759	Diazinon	87.9	90.8	P/P	69 - 132
2358759	Difenoconazole	112	105	P/P	57 - 258
2358759	Dimethenamid	75.0	74.9	P/P	54 - 110
2358759	Dimethomorph	123	127	P/P	28 - 210
2358759	Disulfoton	91.0	91.4	P/P	43 - 133
2358759	Dithiopyr	86.6	87.5	P/P	39 - 116
2358759	EPTC	48.8	48.9	P/P	20 - 78.0
2358759	Ethion	62.6	71.6	P/P	17 - 119
2358759	Ethoprop	85.9	91.1	P/P	66 - 120
2358759	Etridiazole	54.0	52.1	P/P	28 - 96.0
2358759	Fenamiphos	62.7	59.4	P/P	41 - 126
2358759	Fenbuconazole	78.5	69.1	P/P	42 - 169
2358759	Fipronil	89.9	89.2	P/P	61 - 132
2358759	Fipronil Desulfinyl	91.6	97.3	P/P	56 - 132
2358759	Fipronil Sulfide	69.7	74.2	P/P	48 - 119
2358759	Fipronil Sulfone	70.4	68.4	P/P	42 - 131
2358759	Fluazifop-P-butyl	88.6	89.2	P/P	53 - 131
2358759	Fludioxonil	85.1	79.6	P/P	56 - 127
2358759	Flumioxazin	125	124	P/P	19 - 300
2358759	Flutolanil	77.9	76.1	P/P	41 - 127
2358759	Fluxapyroxad	72.3	72.8	P/P	42 - 172
2358759	Fonofos	81.6	85.0	P/P	59 - 113
2358759	Hexazinone	86.4	88.3	P/P	66 - 122
2358759	Imazalil	84.1	74.0	P/P	21 - 283
2358759	Iprodione	85.6	82.9	P/P	43 - 150
2358759	Loratadine	119	120	P/P	23 - 201
2358759	Malathion	108	100	P/P	58 - 136
2358759	Metalaxyl	83.7	81.6	P/P	55 - 120
2358759	Metolachlor	86.5	81.5	P/P	57 - 121
2358759	Metribuzin	100	101	P/P	58 - 294

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P420144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358759	Mevinphos	73.5	73.3	P/P	50 - 126
2358759	Molinate	74.7	73.7	P/P	42 - 93.0
2358759	Myclobutanil	77.9	81.1	P/P	55 - 125
2358759	Naled	105	110	P/P	18 - 200
2358759	Napropamide	75.1	72.2	P/P	39 - 110
2358759	Norflurazon	66.9	65.4	P/P	48 - 128
2358759	Octinoxate	61.0	78.0	P/P	21 - 159
2358759	Oxadiazon	78.2	73.7	P/P	43 - 112
2358759	Oxybenzone	65.6	74.5	P/P	41 - 142
2358759	Oxyfluorfen	107	106	P/P	64 - 153
2358759	Parathion Ethyl	85.8	92.0	P/P	69 - 114
2358759	Parathion Methyl	111	112	P/P	79 - 139
2358759	PBDE-47	57.3	74.3	P/P	27 - 144
2358759	PBDE-99	51.9	66.1	P/P	18 - 150
2358759	Pendimethalin	77.4	82.2	P/P	50 - 139
2358759	Phenytoin	41.8	33.6	P/P	10 - 146
2358759	Phorate	73.6	86.7	P/P	54 - 161
2358759	Prodiamine	49.2	46.4	P/P	30 - 161
2358759	Prometon	115	113	P/P	45 - 134
2358759	Prometryn	79.0	45.6	P/P	45 - 137
2358759	Pronamide	103	98.0	P/P	65 - 133
2358759	Propanil	74.1	73.9	P/P	49 - 142
2358759	Propargite	61.4	66.6	P/P	10 - 203
2358759	Propiconazole	69.9	68.0	P/P	38 - 146
2358759	Pyraflufen Ethyl	76.7	71.5	P/P	34 - 153
2358759	Pyridaben	21.8	14.1	P/P	12 - 192
2358759	Pyriproxyfen	68.3	72.8	P/P	33 - 180
2358759	Simazine	79.9	88.6	P/P	51 - 157
2358759	Stirophos	59.1	61.4	P/P	10 - 128
2358759	Sulfentrazone	77.9	83.0	P/P	53 - 186
2358759	Tebuconazole	46.2	50.5	P/P	10 - 133
2358759	Terbufos	106	110	P/P	65 - 139
2358759	Terbuthylazine	89.5	95.1	P/P	66 - 117
2358759	Thiobencarb	73.9	77.7	P/P	51 - 119
2358759	Tri-o-cresyl Phosphate	60.9	74.3	P/P	31 - 144
2358759	Triadimefon	83.1	76.8	P/P	48 - 119

Reference Method: EPA 8270E
Batch ID: P420283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359027	PCB-1016	83.2	85.3	P/P	46 - 111
2359027	PCB-1260	83.1	83.6	P/P	45 - 114
2359533	Aldrin	60.2	59.5	P/P	20 - 82.0
2359533	Alpha-BHC	73.0	75.3	P/P	71 - 109
2359533	Alpha-Chlordane	72.9	75.9	P/P	42 - 106
2359533	Beta-BHC	83.8	88.3	P/P	69 - 180
2359533	Beta-Cyfluthrin	83.0	82.0	P/P	18 - 175
2359533	Bifenthrin	75.2	72.6	P/P	21 - 128
2359533	Chlorothalonil	129	121	P/P	10 - 300
2359533	Cis-Nonachlor	67.7	62.7	P/P	34 - 106
2359533	Cypermethrin	92.9	89.8	P/P	22 - 158

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P420283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359533	Dacthal	73.7	73.1	P/P	54 - 116
2359533	DDD-p,p'	73.9	72.9	P/P	34 - 107
2359533	DDE-p,p'	67.3	67.1	P/P	33 - 110
2359533	DDT-p,p'	67.4	67.1	P/P	50 - 122
2359533	Delta-BHC	96.4	92.4	P/P	77 - 193
2359533	Deltamethrin	85.8	84.0	P/P	10 - 195
2359533	Dichlobenil	59.7	57.6	P/P	25 - 113
2359533	Dicofol	78.1	77.7	P/P	38 - 247
2359533	Dieldrin	74.4	72.1	P/P	45 - 118
2359533	Endosulfan I	75.3	72.0	P/P	51 - 106
2359533	Endosulfan II	69.9	67.4	P/P	37 - 122
2359533	Endosulfan Sulfate	71.7	68.3	P/P	43 - 132
2359533	Endrin	70.4	69.6	P/P	29 - 101
2359533	Endrin Aldehyde	63.1	59.9	P/P	19 - 110
2359533	Endrin Ketone	73.6	71.7	P/P	60 - 140
2359533	Esfenvalerate	97.5	89.5	P/P	26 - 199
2359533	Ethalfluralin	68.2	68.7	P/P	45 - 99.0
2359533	Fenpropathrin	73.6	71.5	P/P	35 - 120
2359533	Gamma-BHC	84.7	88.2	P/P	63 - 128
2359533	Gamma-Chlordane	67.8	65.9	P/P	40 - 104
2359533	Heptachlor	66.6	63.4	P/P	36 - 97.0
2359533	Heptachlor Epoxide	69.0	65.9	P/P	49 - 184
2359533	Hexachlorobenzene	65.3	64.3	P/P	39 - 96.0
2359533	Kepone	171	169	P/P	10 - 217
2359533	Lambda-Cyhalothrin	88.2	84.7	P/P	21 - 193
2359533	Methoprene	82.6	82.7	P/P	20 - 106
2359533	Methoxychlor	63.9	63.0	P/P	53 - 118
2359533	MGK-264	81.6	80.9	P/P	40 - 118
2359533	Mirex	66.7	66.2	P/P	26 - 92.0
2359533	Oxychlordane	73.2	74.1	P/P	44 - 99.0
2359533	Permethrin	88.0	83.5	P/P	33 - 182
2359533	Phenothrin	52.5	69.7	P/P	10 - 129
2359533	Piperonyl Butoxide	83.3	75.0	P/P	10 - 211
2359533	Prallethrin	73.9	64.7	P/P	24 - 113
2359533	Tau-Fluvalinate	84.5	80.2	P/P	14 - 149
2359533	Tetramethrin	109	104	P/P	17 - 151
2359533	Trans-Nonachlor	69.4	61.7	P/P	42 - 102
2359533	Triclosan Methyl	70.6	67.5	P/P	48 - 108
2359533	Trifluralin	65.3	64.3	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P420283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359027	Chlordane	76.5	79.7	P/P	53 - 126
2359027	Toxaphene	88.8	97.9	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P419980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358851	Acesulfame K	86.6	88.8	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P419980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358851	AMPA	100	106	P/P	40 - 150
2358851	Endothall	126	130	P/P	40 - 150
2358851	Glufosinate	85.2	67.6	P/P	40 - 150
2358851	Glyphosate	85.1	90.0	P/P	40 - 150
2358851	Sucralose	104	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P420045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357537	3-Hydroxycarbofuran	91.7	86.8	P/P	30 - 160
2357537	Aldicarb	37.4	42.1	P/P	30 - 150
2357537	Aldicarb Sulfone	107	102	P/P	30 - 160
2357537	Aldicarb Sulfoxide	33.1	30.1	P/P	30 - 160
2357537	Carbaryl	62.8	60.7	P/P	30 - 160
2357537	Carbofuran	56.6	56.6	P/P	30 - 160
2357537	Methiocarb	80.7	79.9	P/P	30 - 160
2357537	Methomyl	80.8	78.9	P/P	30 - 160
2357537	Oxamyl	84.4	81.1	P/P	30 - 160
2357537	Propoxur	57.6	53.6	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P420123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358657	2,4-D	89.5	87.7	P/P	30 - 160
2358657	2,4,5-T	84.3	82.8	P/P	30 - 160
2358657	Acetaminophen	106	105	P/P	30 - 150
2358657	Acetamiprid	88.4	86.3	P/P	30 - 160
2358657	Afidopyropen	85.5	86.0	P/P	30 - 160
2358657	Bentazon	42.2	38.5	P/P	30 - 150
2358657	Benzovindiflupyr	84.1	84.6	P/P	30 - 160
2358657	Carbamazepine	77.5	74.1	P/P	30 - 160
2358657	Clothianidin	109	107	P/P	30 - 160
2358657	Dinotefuran	97.1	116	P/P	30 - 160
2358657	Diuron	73.5	74.4	P/P	30 - 160
2358657	Fenuron	93.2	93.3	P/P	30 - 160
2358657	Fluridone	95.5	95.1	P/P	30 - 160
2358657	Hydrocodone	102	101	P/P	30 - 160
2358657	Ibuprofen	75.8	63.9	P/P	30 - 160
2358657	Imazapyr	96.0	97.8	P/P	30 - 160
2358657	Imidacloprid	122	125	P/P	30 - 160
2358657	Linuron	76.9	80.4	P/P	30 - 160
2358657	Mandestrobin	97.4	100	P/P	30 - 160
2358657	MCPP	93.6	92.0	P/P	30 - 160
2358657	Naproxen	101	96.4	P/P	30 - 160
2358657	Primidone	91.6	96.3	P/P	30 - 160
2358657	Pyraclostrobin	86.8	87.4	P/P	30 - 160
2358657	Silvex	77.8	75.1	P/P	30 - 160
2358657	Thiamethoxam	122	125	P/P	30 - 160
2358657	Tolfenpyrad	46.8	47.6	P/P	30 - 160
2358657	Triclopyr	87.2	85.6	P/P	30 - 160

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P420144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358759	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.5	Spike	P	0 - 37
2358759	Acetochlor	5.27	Spike	P	0 - 28
2358759	Alachlor	1.41	Spike	P	0 - 30
2358759	Ametryn	22.4	Spike	P	0 - 32
2358759	Atrazine	0.572	Spike	P	0 - 41
2358759	Atrazine Desethyl	8.47	Spike	P	0 - 36
2358759	Avobenzone	21.9	Spike	P	0 - 36
2358759	Azinphos Methyl	9.01	Spike	P	0 - 75
2358759	Azoxystrobin	0.414	Spike	P	0 - 39
2358759	Bromacil	5.87	Spike	P	0 - 33
2358759	Butylate	13.5	Spike	P	0 - 44
2358759	Caffeine	4.83	Spike	P	0 - 74
2358759	Carbophenothion	2.01	Spike	P	0 - 25
2358759	Carfentrazone Ethyl	0.585	Spike	P	0 - 27
2358759	Chlorfenapyr	3.73	Spike	P	0 - 24
2358759	Chlorpyrifos Ethyl	0.0199	Spike	P	0 - 26
2358759	Chlorpyrifos Methyl	4.34	Spike	P	0 - 26
2358759	Coumaphos	1.50	Spike	P	0 - 28
2358759	Cyanazine	10.3	Spike	P	0 - 48
2358759	Cyprodinil	1.82	Spike	P	0 - 29
2358759	Dechlorane Plus	12.0	Spike	P	0 - 30
2358759	Demeton	2.41	Spike	P	0 - 33
2358759	Diazinon	3.28	Spike	P	0 - 29
2358759	Difenoconazole	6.53	Spike	P	0 - 34
2358759	Dimethenamid	0.138	Spike	P	0 - 39
2358759	Dimethomorph	2.77	Spike	P	0 - 51
2358759	Disulfoton	0.495	Spike	P	0 - 30
2358759	Dithiopyr	1.09	Spike	P	0 - 26
2358759	EPTC	0.184	Spike	P	0 - 43
2358759	Ethion	13.4	Spike	P	0 - 79
2358759	Ethoprop	5.89	Spike	P	0 - 29
2358759	Etridiazole	3.65	Spike	P	0 - 33
2358759	Fenamiphos	5.33	Spike	P	0 - 40
2358759	Fenbuconazole	11.8	Spike	P	0 - 74
2358759	Fipronil	0.775	Spike	P	0 - 29
2358759	Fipronil Desulfinyl	6.05	Spike	P	0 - 32
2358759	Fipronil Sulfide	6.28	Spike	P	0 - 30
2358759	Fipronil Sulfone	2.52	Spike	P	0 - 33
2358759	Fluazifop-P-butyl	0.656	Spike	P	0 - 38
2358759	Fludioxonil	6.61	Spike	P	0 - 29
2358759	Flumioxazin	1.28	Spike	P	0 - 51
2358759	Flutolanil	2.33	Spike	P	0 - 25
2358759	Fluxapyroxad	0.658	Spike	P	0 - 45
2358759	Fonofos	4.07	Spike	P	0 - 27
2358759	Hexazinone	2.20	Spike	P	0 - 30
2358759	Imazalil	12.8	Spike	P	0 - 100
2358759	Iprodione	3.25	Spike	P	0 - 33
2358759	Loratadine	0.615	Spike	P	0 - 56
2358759	Malathion	7.39	Spike	P	0 - 37
2358759	Metalaxyl	2.57	Spike	P	0 - 40
2358759	Metolachlor	5.69	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P420144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358759	Metribuzin	0.382	Spike	P	0 - 45
2358759	Mevinphos	0.288	Spike	P	0 - 29
2358759	Molinate	1.32	Spike	P	0 - 33
2358759	Myclobutanil	4.06	Spike	P	0 - 26
2358759	Naled	5.13	Spike	P	0 - 37
2358759	Napropamide	3.96	Spike	P	0 - 44
2358759	Norflurazon	2.09	Spike	P	0 - 30
2358759	Octinoxate	24.6	Spike	P	0 - 45
2358759	Oxadiazon	6.00	Spike	P	0 - 28
2358759	Oxybenzone	12.7	Spike	P	0 - 46
2358759	Oxyfluorfen	0.988	Spike	P	0 - 28
2358759	Parathion Ethyl	6.94	Spike	P	0 - 31
2358759	Parathion Methyl	0.490	Spike	P	0 - 29
2358759	PBDE-47	25.8	Spike	P	0 - 36
2358759	PBDE-99	24.1	Spike	P	0 - 40
2358759	Pendimethalin	5.92	Spike	P	0 - 33
2358759	Phenytoin	21.8	Spike	P	0 - 100
2358759	Phorate	16.3	Spike	P	0 - 36
2358759	Prodiamine	5.71	Spike	P	0 - 71
2358759	Prometon	1.31	Spike	P	0 - 36
2358759	Prometryn	53.6	Spike	F	0 - 28
2358759	Pronamide	5.06	Spike	P	0 - 24
2358759	Propanil	0.290	Spike	P	0 - 28
2358759	Propargite	8.11	Spike	P	0 - 43
2358759	Propiconazole	2.37	Spike	P	0 - 33
2358759	Pyraflufen Ethyl	7.02	Spike	P	0 - 29
2358759	Pyridaben	43.2	Spike	F	0 - 30
2358759	Pyriproxyfen	6.36	Spike	P	0 - 79
2358759	Simazine	7.30	Spike	P	0 - 29
2358759	Stirophos	3.88	Spike	P	0 - 61
2358759	Sulfentrazone	6.28	Spike	P	0 - 33
2358759	Tebuconazole	8.11	Spike	P	0 - 69
2358759	Terbufos	3.07	Spike	P	0 - 29
2358759	Terbuthylazine	6.01	Spike	P	0 - 32
2358759	Thiobencarb	5.02	Spike	P	0 - 26
2358759	Tri-o-cresyl Phosphate	19.8	Spike	P	0 - 33
2358759	Triadimefon	7.87	Spike	P	0 - 28

Reference Method: EPA 8270E
Batch ID: P420283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359027	PCB-1016	2.45	Spike	P	0 - 32
2359027	PCB-1260	0.614	Spike	P	0 - 31
2359533	Aldrin	1.26	Spike	P	0 - 41
2359533	Alpha-BHC	3.09	Spike	P	0 - 25
2359533	Alpha-Chlordane	4.05	Spike	P	0 - 33
2359533	Beta-BHC	5.28	Spike	P	0 - 36
2359533	Beta-Cyfluthrin	1.21	Spike	P	0 - 42
2359533	Bifenthrin	3.62	Spike	P	0 - 53

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P420283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359533	Chlorothalonil	6.33	Spike	P	0 - 71
2359533	Cis-Nonachlor	7.66	Spike	P	0 - 29
2359533	Cypermethrin	3.41	Spike	P	0 - 40
2359533	Dacthal	0.781	Spike	P	0 - 26
2359533	DDD-p,p'	1.31	Spike	P	0 - 39
2359533	DDE-p,p'	0.216	Spike	P	0 - 33
2359533	DDT-p,p'	0.488	Spike	P	0 - 40
2359533	Delta-BHC	4.17	Spike	P	0 - 37
2359533	Deltamethrin	2.12	Spike	P	0 - 100
2359533	Dichlobenil	2.23	Spike	P	0 - 40
2359533	Dicofol	0.523	Spike	P	0 - 31
2359533	Dieldrin	3.14	Spike	P	0 - 27
2359533	Endosulfan I	4.56	Spike	P	0 - 23
2359533	Endosulfan II	3.61	Spike	P	0 - 28
2359533	Endosulfan Sulfate	4.92	Spike	P	0 - 38
2359533	Endrin	1.18	Spike	P	0 - 63
2359533	Endrin Aldehyde	5.22	Spike	P	0 - 60
2359533	Endrin Ketone	2.55	Spike	P	0 - 37
2359533	Esfenvalerate	8.63	Spike	P	0 - 52
2359533	Ethalfluralin	0.710	Spike	P	0 - 23
2359533	Fenpropathrin	2.90	Spike	P	0 - 32
2359533	Gamma-BHC	4.04	Spike	P	0 - 17
2359533	Gamma-Chlordane	2.84	Spike	P	0 - 40
2359533	Heptachlor	4.90	Spike	P	0 - 29
2359533	Heptachlor Epoxide	4.52	Spike	P	0 - 25
2359533	Hexachlorobenzene	1.54	Spike	P	0 - 36
2359533	Kepone	0.761	Spike	P	0 - 93
2359533	Lambda-Cyhalothrin	4.10	Spike	P	0 - 55
2359533	Methoprene	0.0619	Spike	P	0 - 53
2359533	Methoxychlor	1.31	Spike	P	0 - 29
2359533	MGK-264	0.804	Spike	P	0 - 35
2359533	Mirex	0.725	Spike	P	0 - 46
2359533	Oxychlordane	1.29	Spike	P	0 - 29
2359533	Permethrin	5.19	Spike	P	0 - 44
2359533	Phenothrin	28.1	Spike	P	0 - 56
2359533	Piperonyl Butoxide	2.82	Spike	P	0 - 100
2359533	Prallethrin	13.4	Spike	P	0 - 42
2359533	Tau-Fluvalinate	5.32	Spike	P	0 - 54
2359533	Tetramethrin	4.37	Spike	P	0 - 51
2359533	Trans-Nonachlor	11.8	Spike	P	0 - 37
2359533	Triclosan Methyl	4.54	Spike	P	0 - 31
2359533	Trifluralin	1.61	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P420283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359027	Chlordane	4.19	Spike	P	0 - 25
2359027	Toxaphene	9.70	Spike	P	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P419980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358851	Acesulfame K	2.46	Spike	P	0 - 30
2358851	AMPA	5.11	Spike	P	0 - 30
2358851	Endothall	2.70	Spike	P	0 - 30
2358851	Glufosinate	23.1	Spike	P	0 - 30
2358851	Glyphosate	5.63	Spike	P	0 - 30
2358851	Sucralose	0.187	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P420045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357537	3-Hydroxycarbofuran	5.46	Spike	P	0 - 30
2357537	Aldicarb	11.9	Spike	P	0 - 30
2357537	Aldicarb Sulfone	4.51	Spike	P	0 - 30
2357537	Aldicarb Sulfoxide	9.64	Spike	P	0 - 30
2357537	Carbaryl	3.34	Spike	P	0 - 30
2357537	Carbofuran	0.0422	Spike	P	0 - 30
2357537	Methiocarb	1.05	Spike	P	0 - 30
2357537	Methomyl	2.40	Spike	P	0 - 30
2357537	Oxamyl	3.98	Spike	P	0 - 30
2357537	Propoxur	7.12	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P420123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358657	2,4-D	1.88	Spike	P	0 - 30
2358657	2,4,5-T	1.81	Spike	P	0 - 30
2358657	Acetaminophen	0.379	Spike	P	0 - 30
2358657	Acetamiprid	2.35	Spike	P	0 - 30
2358657	Afidopyropen	0.608	Spike	P	0 - 30
2358657	Bentazon	8.16	Spike	P	0 - 30
2358657	Benzovindiflupyr	0.571	Spike	P	0 - 30
2358657	Carbamazepine	4.47	Spike	P	0 - 30
2358657	Clothianidin	1.60	Spike	P	0 - 30
2358657	Dinotefuran	17.4	Spike	P	0 - 30
2358657	Diuron	1.16	Spike	P	0 - 30
2358657	Fenuron	0.0381	Spike	P	0 - 30
2358657	Fluridone	0.511	Spike	P	0 - 30
2358657	Hydrocodone	0.646	Spike	P	0 - 30
2358657	Ibuprofen	17.0	Spike	P	0 - 30
2358657	Imazapyr	1.61	Spike	P	0 - 30
2358657	Imidacloprid	2.34	Spike	P	0 - 30
2358657	Linuron	4.39	Spike	P	0 - 30
2358657	Mandestrobin	2.67	Spike	P	0 - 30
2358657	MCPP	1.69	Spike	P	0 - 30
2358657	Naproxen	4.32	Spike	P	0 - 30
2358657	Primidone	5.05	Spike	P	0 - 30
2358657	Pyraclostrobin	0.623	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P420123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358657	Silvex	3.52	Spike	P	0 - 30
2358657	Thiamethoxam	2.16	Spike	P	0 - 30
2358657	Tolfenpyrad	1.58	Spike	P	0 - 30
2358657	Triclopyr	1.83	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2359025
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	41.9	P	30 - 160

Lab Sample ID: 2359026
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.3	P	30 - 160
EPA 8321B	Diuron-d6	55.3	P	30 - 160
EPA 8321B	Endothall-d6	98.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.7	P	30 - 160
EPA 8321B	Primidone-d5	99.3	P	30 - 160
EPA 8321B	Sucralose-d6	55.7	P	30 - 160

Lab Sample ID: 2359027
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	94.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	79.2	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	69.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	65.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	60.1	P	30 - 101
EPA 8276	PCNB	79.8	P	48 - 121

Lab Sample ID: 2359028
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	52.7	P	20 - 200
EPA 8270E	Simazine-d10	98.5	P	62 - 142
EPA 8270E	Terbufos-d10	93.5	P	58 - 132
EPA 8270E	Terphenyl-d14	73.9	P	52 - 137

Lab Sample ID: 2359071
Field Sample ID: G5SE0069

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	57.5	P	30 - 160
EPA 8321B	Diuron-d6	55.2	P	30 - 160
EPA 8321B	Endothall-d6	84.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	37.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.9	P	30 - 160
EPA 8321B	Primidone-d5	96.9	P	30 - 160
EPA 8321B	Sucralose-d6	70.2	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A114978
Included Lab Sample IDs: 2359026, 2359071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	113	P/P	60 - 160
Endothall	79.8	85.8	P/P	60 - 160
Glufosinate	77.0	83.2	P/P	60 - 160
Glyphosate	109	109	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A114979
Included Lab Sample IDs: 2359026, 2359071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	109	111	P/P	60 - 160
Sucralose	106	105	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A114983
Included Lab Sample IDs: 2359026, 2359071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.8	95.9	P/P	50 - 150
2,4,5-T	88.4	94.7	P/P	50 - 150
3-Hydroxycarbofuran	103	99.9	P/P	60 - 150
Acetaminophen	95.8	99.4	P/P	60 - 160
Acetamiprid	99.7	102	P/P	50 - 150
Afidopyropen	93.5	103	P/P	50 - 150
Aldicarb	124	125	P/P	60 - 150
Aldicarb Sulfone	117	115	P/P	50 - 150
Aldicarb Sulfoxide	109	131	P/P	50 - 150
Bentazon	89.9	98.7	P/P	50 - 160
Benzovindiflupyr	100	106	P/P	50 - 150
Carbamazepine	99.8	105	P/P	60 - 150
Carbaryl	99.8	105	P/P	60 - 150
Carbofuran	98.6	99.6	P/P	50 - 150
Clothianidin	100	102	P/P	60 - 150
Dinotefuran	101	107	P/P	50 - 150
Diuron	103	113	P/P	60 - 160
Fenuron	103	104	P/P	60 - 150
Fluridone	106	109	P/P	60 - 160
Hydrocodone	98.6	103	P/P	60 - 150
Ibuprofen	72.8	85.0	P/P	50 - 160
Imazapyr	89.2	92.2	P/P	50 - 150
Imidacloprid	90.3	96.6	P/P	60 - 150
Linuron	111	105	P/P	60 - 150
Mandestrobin	95.6	108	P/P	50 - 150
MCPP	91.0	92.8	P/P	50 - 150
Methiocarb	85.4	115	P/P	50 - 150
Methomyl	108	108	P/P	50 - 150
Naproxen	61.6	95.1	P/P	50 - 160
Oxamyl	106	104	P/P	50 - 150
Primidone	101	104	P/P	60 - 150
Propoxur	99.8	102	P/P	50 - 150
Pyraclostrobin	101	107	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A114983
Included Lab Sample IDs: 2359026, 2359071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silvex	83.9	103	P/P	50 - 150
Thiamethoxam	100	105	P/P	50 - 150
Tolfenpyrad	97.6	100	P/P	60 - 150
Triclopyr	96.5	92.7	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A115040
Included Lab Sample IDs: 2359027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.6		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	99.6		P	80 - 120
Beta-Cyfluthrin	95.4		P	80 - 120
Bifenthrin	97.4		P	80 - 120
Chlorothalonil	95.8		P	80 - 120
Cis-Nonachlor	93.6		P	80 - 120
Cypermethrin	96.2		P	80 - 120
Dacthal	95.9		P	80 - 120
DDD-p,p'	97.2		P	80 - 120
DDE-p,p'	98.6		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	95.1		P	80 - 120
Deltamethrin	89.2		P	80 - 120
Dichlobenil	94.9		P	80 - 120
Dicofol	96.7		P	80 - 120
Dieldrin	95.3		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	92.6		P	80 - 120
Endosulfan Sulfate	95.6		P	80 - 120
Endrin	98.7		P	80 - 120
Endrin Aldehyde	92.0		P	80 - 120
Endrin Ketone	93.5		P	80 - 120
Esfenvalerate	87.6		P	80 - 120
Ethalfluralin	99.1		P	80 - 120
Fenpropathrin	98.8		P	80 - 120
Gamma-BHC	97.4		P	80 - 120
Gamma-Chlordane	97.8		P	80 - 120
Heptachlor	94.6		P	80 - 120
Heptachlor Epoxide	95.7		P	80 - 120
Hexachlorobenzene	98.8		P	80 - 120
Kepone	96.5		P	80 - 120
Lambda-Cyhalothrin	95.2		P	80 - 120
Methoprene	98.6		P	80 - 120
Methoxychlor	99.0		P	80 - 120
MGK-264	94.5		P	80 - 120
Mirex	97.9		P	80 - 120
Oxychlordane	99.4		P	80 - 120
Permethrin	98.6		P	80 - 120
Phenothrin	102		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A115040
Included Lab Sample IDs: 2359027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Piperonyl Butoxide	93.9		P	80 - 120
Prallethrin	94.8		P	80 - 120
Tau-Fluvalinate	95.5		P	80 - 120
Tetramethrin	74.5*		F	80 - 120
Trans-Nonachlor	94.3		P	80 - 120
Triclosan Methyl	96.4		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8276
Run ID: A115065
Included Lab Sample IDs: 2359027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.0		P	80 - 120
Toxaphene	91.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115069
Included Lab Sample IDs: 2359027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.6		P	80 - 120
PCB-1260	98.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115095
Included Lab Sample IDs: 2359028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.9		P	80 - 120
Alachlor	97.1		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	92.1		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	95.9		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	97.1		P	80 - 120
Caffeine	112		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	109		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	97.4		P	80 - 120
Cyprodinil	95.6		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	95.2		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	102		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A115095
Included Lab Sample IDs: 2359028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethomorph	96.9		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	103		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	94.9		P	80 - 120
Fenamiphos	113		P	80 - 120
Fenbuconazole	97.0		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	96.4		P	80 - 120
Flumioxazin	103		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	97.7		P	80 - 120
Fonofos	106		P	80 - 120
Hexazinone	95.9		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	95.0		P	80 - 120
Loratadine	94.8		P	80 - 120
Malathion	108		P	80 - 120
Metalaxyl	98.7		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	112		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	98.5		P	80 - 120
Naled	106		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	95.9		P	80 - 120
Oxadiazon	98.2		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	97.5		P	80 - 120
Pendimethalin	89.5		P	80 - 120
Phenytoin	101		P	80 - 120
Phorate	105		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	105		P	80 - 120
Propanil	90.1		P	80 - 120
Propargite	93.0		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	105		P	80 - 120
Pyriproxyfen	94.1		P	80 - 120
Simazine	110		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A115095
Included Lab Sample IDs: 2359028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stirophos	106		P	80 - 120
Sulfentrazone	91.2		P	80 - 120
Tebuconazole	98.2		P	80 - 120
Terbufos	106		P	80 - 120
Terbuthylazine	108		P	80 - 120
Thiobencarb	95.8		P	80 - 120
Triadimefon	97.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115161
Included Lab Sample IDs: 2359028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.7		P	80 - 120
Avobenzone	95.1		P	80 - 120
Dechlorane Plus	105		P	80 - 120
Octinoxate	92.1		P	80 - 120
Oxybenzone	98.6		P	80 - 120
PBDE-47	93.7		P	80 - 120
PBDE-99	98.6		P	80 - 120
Tri-o-cresyl Phosphate	92.9		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		
					LCS	SMP	MS
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	76.5	53.3	65.5			20.5
	Acetochlor	91.1	96.9	92.0			5.27
	Alachlor	77.5	80.5	81.6			1.41
	Aldrin	40.1	60.2	59.5			1.26
	Alpha-BHC	81.4	73.0	75.3			3.09
	Alpha-Chlordane	66.8	72.9	75.9			4.05
	Ametryn	76.7	81.7	102			22.4
	Atrazine	88.8	89.8	88.8			0.572
	Atrazine Desethyl	53.5	39.3	35.2			8.47
	Avobenzone	74.3	69.0	85.9			21.9
	Azinphos Methyl	94.6	92.8	102			9.01
	Azoxystrobin	104	112	111			0.414
	Beta-BHC	95.0	83.8	88.3			5.28
	Beta-Cyfluthrin	47.4	83.0	82.0			1.21
	Bifenthrin	30.4	75.2	72.6			3.62
	Bromacil	60.1	57.8	53.4			5.87
	Butylate	53.9	56.9	49.7			13.5
	Caffeine	90.8	92.5	97.0			4.83
	Carbophenothion	81.1	87.6	89.4			2.01
	Carfentrazone Ethyl	88.1	88.5	88.0			0.585
	Chlorfenapyr	80.0	76.3	79.2			3.73
	Chlorothalonil	98.0	129	121			6.33
	Chlorpyrifos Ethyl	87.8	84.9	84.8			0.0199
	Chlorpyrifos Methyl	99.8	97.1	92.9			4.34
	Cis-Nonachlor	59.7	67.7	62.7			7.66
	Coumaphos	98.3	63.0	62.1			1.50
	Cyanazine	88.9	105	94.6			10.3
	Cypermethrin	49.9	92.9	89.8			3.41
	Cyprodinil	79.3	79.4	80.8			1.82
	Dacthal	81.8	73.7	73.1			0.781
	DDD-p,p'	68.0	73.9	72.9			1.31
	DDE-p,p'	70.5	67.3	67.1			0.216
	DDT-p,p'	63.8	67.4	67.1			0.488
	Dechlorane Plus	108	90.1	102			12.0
	Delta-BHC	89.9	96.4	92.4			4.17
	Deltamethrin	48.9	85.8	84.0			2.12
	Demeton	77.5	79.6	81.5			2.41
	Diazinon	89.7	87.9	90.8			3.28
	Dichlobenil	78.1	59.7	57.6			2.23
	Dicofol	75.3	78.1	77.7			0.523
	Dieldrin	67.4	74.4	72.1			3.14
	Difenoconazole	105	112	105			6.53
	Dimethenamid	70.8	75.0	74.9			0.138
	Dimethomorph	99.5	123	127			2.77
	Disulfoton	100	91.0	91.4			0.495
	Dithiopyr	81.3	86.6	87.5			1.09
	Endosulfan I	74.2	75.3	72.0			4.56
	Endosulfan II	71.3	69.9	67.4			3.61
	Endosulfan Sulfate	82.0	71.7	68.3			4.92
	Endrin	70.6	70.4	69.6			1.18
	Endrin Aldehyde	75.4	63.1	59.9			5.22
	Endrin Ketone	80.8	73.6	71.7			2.55

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	EPTC	47.2	48.8	48.9			0.184
	Esfenvalerate	44.0	97.5	89.5			8.63
	Ethalfluralin	64.9	68.2	68.7			0.710
	Ethion	67.6	62.6	71.6			13.4
	Ethoprop	83.8	85.9	91.1			5.89
	Etridiazole	46.4	54.0	52.1			3.65
	Fenamiphos	95.0	62.7	59.4			5.33
	Fenbuconazole	83.7	78.5	69.1			11.8
	Fenpropathrin	53.2	73.6	71.5			2.90
	Fipronil	83.6	89.9	89.2			0.775
	Fipronil Desulfinyl	81.3	91.6	97.3			6.05
	Fipronil Sulfide	63.7	69.7	74.2			6.28
	Fipronil Sulfone	68.0	70.4	68.4			2.52
	Fluazifop-P-butyl	86.6	88.6	89.2			0.656
	Fludioxonil	81.6	85.1	79.6			6.61
	Flumioxazin	124	125	124			1.28
	Flutolanil	79.5	77.9	76.1			2.33
	Fluxapyroxad	79.9	72.3	72.8			0.658
	Fonofos	88.2	81.6	85.0			4.07
	Gamma-BHC	90.9	84.7	88.2			4.04
	Gamma-Chlordane	62.1	67.8	65.9			2.84
	Heptachlor	56.2	66.6	63.4			4.90
	Heptachlor Epoxide	69.9	69.0	65.9			4.52
	Hexachlorobenzene	61.9	65.3	64.3			1.54
	Hexazinone	81.5	86.4	88.3			2.20
	Imazalil	101	84.1	74.0			12.8
	Iprodione	92.3	85.6	82.9			3.25
	Kepone	146	171	169			0.761
	Lambda-Cyhalothrin	35.1	88.2	84.7			4.10
	Loratadine	96.6	119	120			0.615
	Malathion	106	108	100			7.39
	Metalaxyl	76.9	83.7	81.6			2.57
	Methoprene	39.2	82.6	82.7			0.0619
	Methoxychlor	65.9	63.9	63.0			1.31
	Metolachlor	81.9	86.5	81.5			5.69
	Metribuzin	99.5	100	101			0.382
	Mevinphos	68.7	73.5	73.3			0.288
	MGK-264	69.1	81.6	80.9			0.804
	Mirex	50.3	66.7	66.2			0.725
	Molinate	68.4	74.7	73.7			1.32
	Myclobutanil	81.4	77.9	81.1			4.06
	Naled	93.6	105	110			5.13
	Napropamide	69.8	75.1	72.2			3.96
	Norflurazon	66.9	66.9	65.4			2.09
	Octinoxate	68.0	61.0	78.0			24.6
	Oxadiazon	69.6	78.2	73.7			6.00
	Oxybenzone	69.0	65.6	74.5			12.7
	Oxychlordane	67.4	73.2	74.1			1.29
	Oxyfluorfen	103	107	106			0.988
	Parathion Ethyl	89.4	85.8	92.0			6.94
	Parathion Methyl	107	111	112			0.490
	PBDE-47	67.6	57.3	74.3			25.8
	PBDE-99	74.4	51.9	66.1			24.1
	PCB-1016	83.8	83.2	85.3			2.45

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	PCB-1260	82.2	83.1	83.6			0.614
	Pendimethalin	75.1	77.4	82.2			5.92
	Permethrin	47.4	88.0	83.5			5.19
	Phenothrin	31.8	52.5	69.7			28.1
	Phenytoin	18.2	41.8	33.6			21.8
	Phorate	75.7	73.6	86.7			16.3
	Piperonyl Butoxide	91.6	83.3	75.0			2.82
	Prallethrin	65.3	73.9	64.7			13.4
	Prodiamine	42.0	49.2	46.4			5.71
	Prometon	117	115	113			1.31
	Prometryn	126	79.0	45.6			53.6
	Pronamide	93.4	103	98.0			5.06
	Propanil	79.4	74.1	73.9			0.290
	Propargite	64.1	61.4	66.6			8.11
	Propiconazole	65.5	69.9	68.0			2.37
	Pyraflufen Ethyl	69.4	76.7	71.5			7.02
	Pyridaben	94.9	21.8	14.1			43.2
	Pyriproxyfen	74.2	68.3	72.8			6.36
	Simazine	88.5	79.9	88.6			7.30
	Stirophos	67.4	59.1	61.4			3.88
	Sulfentrazone	33.0	77.9	83.0			6.28
	Tau-Fluvalinate	32.0	84.5	80.2			5.32
	Tebuconazole	50.6	46.2	50.5			8.11
	Terbufos	104	106	110			3.07
	Terbuthylazine	87.5	89.5	95.1			6.01
	Tetramethrin	64.0	109	104			4.37
	Thiobencarb	76.1	73.9	77.7			5.02
	Trans-Nonachlor	61.3	69.4	61.7			11.8
	Tri-o-cresyl Phosphate	67.6	60.9	74.3			19.8
	Triadimefon	83.5	83.1	76.8			7.87
	Triclosan Methyl	72.8	70.6	67.5			4.54
	Trifluralin	64.6	65.3	64.3			1.61
EPA 8276	Chlordane	69.6	76.5	79.7			4.19
	Toxaphene	87.4	88.8	97.9			9.70
EPA 8321B	2,4-D	74.2	89.5	87.7			1.88
	2,4,5-T	62.5	84.3	82.8			1.81
	3-Hydroxycarbofuran	80.8	91.7	86.8			5.46
	Acesulfame K	99.9	86.6	88.8			2.46
	Acetaminophen	87.8	106	105			0.379
	Acetamiprid	79.9	88.4	86.3			2.35
	Afidopyropen	70.6	85.5	86.0			0.608
	Aldicarb	44.6	37.4	42.1			11.9
	Aldicarb Sulfone	92.1	107	102			4.51
	Aldicarb Sulfoxide	58.9	33.1	30.1			9.64
	AMPA	112	100	106			5.11
	Bentazon	38.2	42.2	38.5			8.16
	Benzovindiflupyr	78.3	84.1	84.6			0.571
	Carbamazepine	76.3	77.5	74.1			4.47
	Carbaryl	64.8	62.8	60.7			3.34
	Carbofuran	63.7	56.6	56.6			0.0422
	Clothianidin	91.9	109	107			1.60
	Dinotefuran	95.4	97.1	116			17.4
	Diuron	70.6	73.5	74.4			1.16
	Endothall	97.7	126	130			2.70

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Fenuron	96.9	93.2	93.3			0.0381
	Fluridone	91.9	95.5	95.1			0.511
	Glufosinate	91.2	85.2	67.6			23.1
	Glyphosate	109	85.1	90.0			5.63
	Hydrocodone	89.2	102	101			0.646
	Ibuprofen	58.2	75.8	63.9			17.0
	Imazapyr	82.9	96.0	97.8			1.61
	Imidacloprid	120	122	125			2.34
	Linuron	72.7	76.9	80.4			4.39
	Mandestrobin	94.5	97.4	100			2.67
	MCPP	78.3	93.6	92.0			1.69
	Methiocarb	74.0	80.7	79.9			1.05
	Methomyl	83.5	80.8	78.9			2.40
	Naproxen	70.0	101	96.4			4.32
	Oxamyl	80.2	84.4	81.1			3.98
	Primidone	86.3	91.6	96.3			5.05
	Propoxur	58.8	57.6	53.6			7.12
	Pyraclostrobin	77.5	86.8	87.4			0.623
	Silvex	63.2	77.8	75.1			3.52
	Sucralose	106	104	104			0.187
	Thiamethoxam	95.4	122	125			2.16
	Tolfenpyrad	45.2	46.8	47.6			1.58
	Triclopyr	66.9	87.2	85.6			1.83

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2359028
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2359027
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2359028
EPA 8270E	PCBs in water matrices by GC/MS/MS	2359027
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2359027
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2359025
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2359026, 2359071

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	09/23/2022	09/27/2022 08:00	Fe-Val Siddell	10/02/2022 05:31	Michael Poppell	2359028
	09/23/2022	09/27/2022 08:00	Fe-Val Siddell	10/05/2022 21:44	Lipi Saha	2359028
	09/23/2022	09/28/2022 08:30	Rasheda Ghaffari	09/29/2022 21:16	Vandana T. Nagar	2359027
	09/23/2022	09/28/2022 08:30	Rasheda Ghaffari	09/30/2022 22:09	Julie Wi	2359027
EPA 8276	09/23/2022	09/28/2022 08:30	Rasheda Ghaffari	09/30/2022 06:25	Arthur Maknenko	2359027
EPA 8321B	09/23/2022	09/26/2022 09:00	June Rhew	09/27/2022 23:32	Juyoung Kim	2359025
	09/23/2022	09/27/2022 09:00	June Rhew	09/28/2022 06:20	Juyoung Kim	2359026
	09/23/2022	09/27/2022 09:00	June Rhew	09/28/2022 06:38	Juyoung Kim	2359071
	09/23/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 14:24	Umesh Chiluwal	2359026
	09/23/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 14:37	Umesh Chiluwal	2359071
	09/23/2022	09/27/2022 09:00	Umesh Chiluwal	09/28/2022 00:58	Umesh Chiluwal	2359026
	09/23/2022	09/27/2022 09:00	Umesh Chiluwal	09/28/2022 01:13	Umesh Chiluwal	2359071