Chemical Analysis Report

CEN-DIST-2022-08-11-02

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

Event Description: **Gee Creeks and Blank**
Request ID: **RQ-2022-08-08-22**
Customer: **CEN-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 01-SEP-2022 09:40

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: Gee Creek @ SR Hwy 419 **Collection Date/Time: 08/10/2022 10:20**

Field ID: G2CE0075 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348262	EPA 8321B	Aldicarb	0.020	U	ug/L	P417969	
		Aldicarb Sulfone	0.0020	U	ug/L	P417969	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417969	
		Carbaryl	0.0020	U	ug/L	P417969	
		Carbofuran	0.0020	U	ug/L	P417969	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417969	
		Methiocarb	0.0020	U	ug/L	P417969	
		Methomyl	0.0020	U	ug/L	P417969	
		Oxamyl	0.0020	U	ug/L	P417969	
		Propoxur	0.0020	U	ug/L	P417969	
2348263		2,4-D	0.0058	I	ug/L	P417968	
		Acesulfame K	0.15	I	ug/L	P417966	
		2,4,5-T	0.0040	U	ug/L	P417968	
		AMPA	0.13	I	ug/L	P417966	
		Acetaminophen	0.0080	U	ug/L	P417968	
		Acetamiprid	0.0020	U	ug/L	P417968	
		Endothall	0.25	U	ug/L	P417966	
		Glufosinate	0.10	U	ug/L	P417966	
		Glyphosate	0.31	I	ug/L	P417966	
		Afidopyropen	0.0020	U	ug/L	P417968	
		Bentazon	0.15		ug/L	P417968	
		Sucralose	1.5		ug/L	P417966	
		Benzovindiflupyr	0.0020	U	ug/L	P417968	
		Carbamazepine	0.0026	I	ug/L	P417968	
		Clothianidin	0.018		ug/L	P417968	
		Dinotefuran	0.0020	U	ug/L	P417968	
		Diuron	0.0047	I	ug/L	P417968	
		Fenuron	0.032	U	ug/L	P417968	
		Fluridone	0.016		ug/L	P417968	
		Imazapyr	0.13		ug/L	P417968	
		Hydrocodone	0.0020	U	ug/L	P417968	
		Ibuprofen	0.080	U	ug/L	P417968	
		Imidacloprid	0.014		ug/L	P417968	
		Linuron	0.0040	U	ug/L	P417968	RPD
		Mandestrobin	0.0020	U	ug/L	P417968	
		MCPP	0.0040	U	ug/L	P417968	
		Naproxen	0.0080	U	ug/L	P417968	
		Primidone	0.0062	I	ug/L	P417968	
		Pyraclostrobin	0.0020	U	ug/L	P417968	
		Silvex	0.0040	U	ug/L	P417968	
		Thiamethoxam	0.0020	U	ug/L	P417968	
		Tolfenpyrad	0.0020	U	ug/L	P417968	
		Triclopyr	0.0040	U	ug/L	P417968	
2348264	EPA 8270E	Aldrin	0.67	U	ng/L	P418171	

Field ID: G2CE0075 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348264	EPA 8270E	Alpha-BHC	0.10	UJ	ng/L	P418171	LCS, MS
		Alpha-Chlordane	0.20	U	ng/L	P418171	
		PCB-1016	2.0	U	ng/L	P418171	
		Beta-BHC	0.10	U	ng/L	P418171	
		PCB-1221	2.0	U	ng/L	P418171	
		Beta-Cyfluthrin	1.3	U	ng/L	P418171	
		PCB-1232	2.0	U	ng/L	P418171	
		Bifenthrin	0.51	U	ng/L	P418171	
		PCB-1242	2.0	U	ng/L	P418171	
		PCB-1248	2.0	U	ng/L	P418171	
		Chlorothalonil	1.3	U	ng/L	P418171	
		PCB-1254	2.0	U	ng/L	P418171	
		Cis-Nonachlor	0.20	U	ng/L	P418171	
		PCB-1260	2.0	U	ng/L	P418171	
		Cypermethrin	1.5	U	ng/L	P418171	
		Dacthal	0.15	U	ng/L	P418171	
		DDD-p,p'	0.26	U	ng/L	P418171	
		DDE-p,p'	0.20	U	ng/L	P418171	
		DDT-p,p'	0.26	U	ng/L	P418171	
		Delta-BHC	0.41	U	ng/L	P418171	
		Deltamethrin	1.3	U	ng/L	P418171	
		Dichlobenil	0.26	U	ng/L	P418171	
		Dicofol	1.3	U	ng/L	P418171	
		Dieldrin	0.41	U	ng/L	P418171	
		Endosulfan I	0.41	U	ng/L	P418171	
		Endosulfan II	0.41	U	ng/L	P418171	
		Endosulfan Sulfate	0.31	U	ng/L	P418171	
		Endrin	0.41	U	ng/L	P418171	
		Endrin Aldehyde	0.77	U	ng/L	P418171	
		Endrin Ketone	0.41	U	ng/L	P418171	
		Esfenvalerate	0.77	U	ng/L	P418171	
		Ethalfluralin	0.15	U	ng/L	P418171	
		Fenpropathrin	0.26	U	ng/L	P418171	
		Gamma-BHC	0.13	U	ng/L	P418171	
		Gamma-Chlordane	0.20	U	ng/L	P418171	
		Heptachlor	0.20	U	ng/L	P418171	
		Heptachlor Epoxide	0.26	U	ng/L	P418171	
		Hexachlorobenzene**	1.0	U	ng/L	P418171	
		Kepone	5.1	U	ng/L	P418171	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418171	
		Methoprene	0.77	U	ng/L	P418171	
		Methoxychlor	0.31	U	ng/L	P418171	
		MGK-264	0.20	U	ng/L	P418171	
		Mirex	0.36	U	ng/L	P418171	
		Oxychlordane	0.31	U	ng/L	P418171	

Field ID: G2CE0075 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348264	EPA 8270E	Permethrin	1.6	U	ng/L	P418171	
		Phenothrin	0.92	U	ng/L	P418171	
		Piperonyl Butoxide	0.15	U	ng/L	P418171	
		Prallethrin	2.0	U	ng/L	P418171	
		Tau-Fluvalinate	0.26	U	ng/L	P418171	
		Tetramethrin	0.77	U	ng/L	P418171	
		Trans-Nonachlor	0.20	U	ng/L	P418171	
		Triclosan Methyl	0.15	U	ng/L	P418171	
		Trifluralin	0.20	U	ng/L	P418171	
	EPA 8276	Chlordane	2.6	U	ng/L	P418171	
		Toxaphene	15	U	ng/L	P418171	
2348265	EPA 8270E	Oxybenzone**	10	U	ng/L	P418168	
		Acetochlor	0.25	U	ng/L	P418168	
		Octinoxate**	20	U	ng/L	P418168	
		Alachlor	0.25	U	ng/L	P418168	
		Avobenzone**	100	U	ng/L	P418168	
		Ametryn	0.61	U	ng/L	P418168	
		Atrazine	15		ng/L	P418168	
		PBDE-47**	4.1	U	ng/L	P418168	
		Atrazine Desethyl	2.8	I	ng/L	P418168	
		PBDE-99**	5.1	U	ng/L	P418168	
		Azinphos Methyl	2.0	U	ng/L	P418168	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P418168	
		Azoxystrobin	0.74	I	ng/L	P418168	
		Bromacil	0.51	U	ng/L	P418168	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P418168	
		Butylate	0.41	U	ng/L	P418168	
		Dechlorane Plus**	30	U	ng/L	P418168	
		Caffeine**	31		ng/L	P418168	
		Carbophenothion	0.20	U	ng/L	P418168	
		Carfentrazone Ethyl	0.10	U	ng/L	P418168	
		Chlorfenapyr	0.18	U	ng/L	P418168	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P418168	
		Chlorpyrifos Methyl	0.051	U	ng/L	P418168	
		Coumaphos	0.51	U	ng/L	P418168	
		Cyanazine	3.3	U	ng/L	P418168	
		Cyprodinil	0.10	U	ng/L	P418168	
		Demeton	1.5	U	ng/L	P418168	
		Diazinon	0.13	U	ng/L	P418168	
		Difenoconazole	0.61	U	ng/L	P418168	
		Dimethenamid	0.10	U	ng/L	P418168	
		Dimethomorph	0.18	U	ng/L	P418168	
		Disulfoton	0.51	U	ng/L	P418168	
		Dithiopyr	0.84	V	ng/L	P418168	

Field ID: G2CE0075 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348265	EPA 8270E	EPTC	1.3	U	ng/L	P418168	
		Ethion	0.15	U	ng/L	P418168	
		Ethoprop	0.10	U	ng/L	P418168	
		Etridiazole	0.15	U	ng/L	P418168	MS
		Fenamiphos	0.51	U	ng/L	P418168	
		Fenbuconazole	0.13	U	ng/L	P418168	
		Fipronil	0.49	I	ng/L	P418168	
		Fipronil Desulfinyl**	0.90		ng/L	P418168	
		Fipronil Sulfide	0.79		ng/L	P418168	
		Fipronil Sulfone	1.4		ng/L	P418168	
		Fluazifop-P-butyl	0.10	U	ng/L	P418168	
		Fludioxonil	0.13	U	ng/L	P418168	
		Flumioxazin	1.8	U	ng/L	P418168	
		Flutolanil	0.10	U	ng/L	P418168	
		Fluxapyroxad	0.10	U	ng/L	P418168	
		Fonofos	0.20	U	ng/L	P418168	
		Hexazinone	0.51	U	ng/L	P418168	
		Imazalil	0.76	U	ng/L	P418168	
		Iprodione	0.61	U	ng/L	P418168	
		Loratadine**	0.10	U	ng/L	P418168	
		Malathion	0.36	U	ng/L	P418168	
		Metalaxyl	0.76	U	ng/L	P418168	
		Metolachlor	0.36	U	ng/L	P418168	
		Metribuzin	2.5	U	ng/L	P418168	
		Mevinphos	1.1	U	ng/L	P418168	
		Molinate	0.30	U	ng/L	P418168	
		Myclobutanil	2.2		ng/L	P418168	
		Naled	1.5	U	ng/L	P418168	RPD
		Napropamide	0.41	U	ng/L	P418168	
		Norflurazon	0.51	U	ng/L	P418168	
		Oxadiazon	0.36	I	ng/L	P418168	
		Oxyfluorfen	0.15	U	ng/L	P418168	
		Parathion Ethyl	0.25	U	ng/L	P418168	
		Parathion Methyl	0.56	U	ng/L	P418168	
		Pendimethalin	1.0	U	ng/L	P418168	
		Phenytoin**	3.6	U	ng/L	P418168	MS
		Phorate	0.53	U	ng/L	P418168	
		Prodiamine	0.18	U	ng/L	P418168	
		Prometon	0.91	U	ng/L	P418168	
		Prometryn	0.20	U	ng/L	P418168	
		Pronamide	0.15	U	ng/L	P418168	
		Propanil	0.13	U	ng/L	P418168	
		Propargite	1.5	U	ng/L	P418168	
		Propiconazole	1.4	I	ng/L	P418168	
		Pyraflufen Ethyl	0.25	U	ng/L	P418168	

Field ID: G2CE0075 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348265	EPA 8270E	Pyridaben	0.46	U	ng/L	P418168	
		Pyriproxyfen	0.13	U	ng/L	P418168	
		Simazine	0.51	U	ng/L	P418168	
		Stirophos	0.13	U	ng/L	P418168	
		Sulfentrazone	2.8		ng/L	P418168	
		Tebuconazole	0.89	I	ng/L	P418168	
		Terbufos	0.10	U	ng/L	P418168	
		Terbuthylazine	0.43	U	ng/L	P418168	
		Thiobencarb	0.61	U	ng/L	P418168	
		Triadimefon	1.3		ng/L	P418168	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample.

Sample Location: Gee Creek @ Alton Rd **Collection Date/Time: 08/10/2022 10:48**

Field ID: G2CE0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348266	EPA 8270E	Aldrin	0.69	U	ng/L	P418151	
		Alpha-BHC	0.11	U	ng/L	P418151	
		Alpha-Chlordane	0.21	U	ng/L	P418151	
		PCB-1016	2.1	U	ng/L	P418151	
		Beta-BHC	0.11	U	ng/L	P418151	
		PCB-1221	2.1	U	ng/L	P418151	
		Beta-Cyfluthrin	1.3	U	ng/L	P418151	
		PCB-1232	2.1	U	ng/L	P418151	
		Bifenthrin	0.53	U	ng/L	P418151	
		PCB-1242	2.1	U	ng/L	P418151	
		PCB-1248	2.1	U	ng/L	P418151	
		Chlorothalonil	1.3	U	ng/L	P418151	
		PCB-1254	2.1	U	ng/L	P418151	
		Cis-Nonachlor	0.21	U	ng/L	P418151	
		PCB-1260	2.1	U	ng/L	P418151	
		Cypermethrin	1.6	U	ng/L	P418151	
		Dacthal	0.16	U	ng/L	P418151	
		DDD-p,p'	0.26	U	ng/L	P418151	
		DDE-p,p'	0.21	U	ng/L	P418151	
		DDT-p,p'	0.26	U	ng/L	P418151	
		Delta-BHC	0.42	U	ng/L	P418151	
		Deltamethrin	1.3	U	ng/L	P418151	
		Dichlobenil	0.26	U	ng/L	P418151	MS
		Dicofol	1.3	U	ng/L	P418151	
		Dieldrin	0.42	U	ng/L	P418151	
		Endosulfan I	0.42	U	ng/L	P418151	
		Endosulfan II	0.42	U	ng/L	P418151	
		Endosulfan Sulfate	0.32	U	ng/L	P418151	
		Endrin	0.42	U	ng/L	P418151	
		Endrin Aldehyde	0.79	U	ng/L	P418151	
		Endrin Ketone	0.42	U	ng/L	P418151	
		Esfenvalerate	0.79	U	ng/L	P418151	
		Ethalfluralin	0.16	U	ng/L	P418151	
		Fenpropathrin	0.26	U	ng/L	P418151	
		Gamma-BHC	0.13	U	ng/L	P418151	
		Gamma-Chlordane	0.21	U	ng/L	P418151	
		Heptachlor	0.21	U	ng/L	P418151	
		Heptachlor Epoxide	0.26	U	ng/L	P418151	
		Hexachlorobenzene**	1.1	U	ng/L	P418151	
		Kepone	5.3	U	ng/L	P418151	
		Lambda-Cyhalothrin	0.79	U	ng/L	P418151	
		Methoprene	0.79	U	ng/L	P418151	
		Methoxychlor	0.32	U	ng/L	P418151	
		MGK-264	0.21	U	ng/L	P418151	

Field ID: G2CE0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348266	EPA 8270E	Mirex	0.37	U	ng/L	P418151	
		Oxychlordane	0.32	U	ng/L	P418151	
		Permethrin	1.7	U	ng/L	P418151	
		Phenothrin	0.95	U	ng/L	P418151	
		Piperonyl Butoxide	0.16	U	ng/L	P418151	
		Prallethrin	2.1	U	ng/L	P418151	
		Tau-Fluvalinate	0.26	U	ng/L	P418151	
		Tetramethrin	0.79	U	ng/L	P418151	
		Trans-Nonachlor	0.21	U	ng/L	P418151	
		Triclosan Methyl	0.16	U	ng/L	P418151	
		Trifluralin	0.21	U	ng/L	P418151	
	EPA 8276	Chlordane	2.6	U	ng/L	P418151	
		Toxaphene	16	U	ng/L	P418151	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 08/10/2022 10:53**

Field ID: FB_08102022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348267	EPA 8270E	Aldrin	0.67	U	ng/L	P418151	
		Alpha-BHC	0.10	U	ng/L	P418151	
		Alpha-Chlordane	0.21	U	ng/L	P418151	
		PCB-1016	2.1	U	ng/L	P418151	
		Beta-BHC	0.10	U	ng/L	P418151	
		PCB-1221	2.1	U	ng/L	P418151	
		Beta-Cyfluthrin	1.3	U	ng/L	P418151	
		PCB-1232	2.1	U	ng/L	P418151	
		Bifenthrin	0.51	U	ng/L	P418151	
		PCB-1242	2.1	U	ng/L	P418151	
		PCB-1248	2.1	U	ng/L	P418151	
		Chlorothalonil	1.3	U	ng/L	P418151	
		PCB-1254	2.1	U	ng/L	P418151	
		Cis-Nonachlor	0.21	U	ng/L	P418151	
		PCB-1260	2.1	U	ng/L	P418151	
		Cypermethrin	1.5	U	ng/L	P418151	
		Dacthal	0.15	U	ng/L	P418151	
		DDD-p,p'	0.26	U	ng/L	P418151	
		DDE-p,p'	0.21	U	ng/L	P418151	
		DDT-p,p'	0.26	U	ng/L	P418151	
		Delta-BHC	0.41	U	ng/L	P418151	
		Deltamethrin	1.3	U	ng/L	P418151	
		Dichlobenil	0.26	U	ng/L	P418151	MS
		Dicofol	1.3	U	ng/L	P418151	
		Dieldrin	0.41	U	ng/L	P418151	
		Endosulfan I	0.41	U	ng/L	P418151	
		Endosulfan II	0.41	U	ng/L	P418151	
		Endosulfan Sulfate	0.31	U	ng/L	P418151	
		Endrin	0.41	U	ng/L	P418151	
		Endrin Aldehyde	0.77	U	ng/L	P418151	
		Endrin Ketone	0.41	U	ng/L	P418151	
		Esfenvalerate	0.77	U	ng/L	P418151	
		Ethalfluralin	0.15	U	ng/L	P418151	
		Fenpropathrin	0.26	U	ng/L	P418151	
		Gamma-BHC	0.13	U	ng/L	P418151	
		Gamma-Chlordane	0.21	U	ng/L	P418151	
		Heptachlor	0.21	U	ng/L	P418151	
		Heptachlor Epoxide	0.26	U	ng/L	P418151	
		Hexachlorobenzene**	1.0	U	ng/L	P418151	
		Kepone	5.1	U	ng/L	P418151	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418151	
		Methoprene	0.77	U	ng/L	P418151	
		Methoxychlor	0.31	U	ng/L	P418151	
		MGK-264	0.21	U	ng/L	P418151	

Field ID: FB_08102022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348267	EPA 8270E	Mirex	0.36	U	ng/L	P418151	
		Oxychlordane	0.31	U	ng/L	P418151	
		Permethrin	1.6	U	ng/L	P418151	
		Phenothrin	0.93	U	ng/L	P418151	
		Piperonyl Butoxide	0.15	U	ng/L	P418151	
		Prallethrin	2.1	U	ng/L	P418151	
		Tau-Fluvalinate	0.26	U	ng/L	P418151	
		Tetramethrin	0.77	U	ng/L	P418151	
		Trans-Nonachlor	0.21	U	ng/L	P418151	
		Triclosan Methyl	0.15	U	ng/L	P418151	
		Trifluralin	0.21	U	ng/L	P418151	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418151

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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418151

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418151

Component	Result	Code	Units
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E
Batch ID: P418168

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418168

Component	Result	Code	Units
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
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.61	I	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418168

Component	Result	Code	Units
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
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	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418168

Component	Result	Code	Units
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
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: P418171

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418171

Component	Result	Code	Units
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418171

Component	Result	Code	Units
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P418151

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P418171

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: P417966

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

Reference Method: EPA 8321B
Batch ID: P417968

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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P417969

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P417969

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	54.3		P	10 - 92.0
Alpha-BHC	92.4		P	75 - 107
Alpha-Chlordane	83.6		P	50 - 108
Beta-BHC	115		P	36 - 138
Beta-Cyfluthrin	107		P	20 - 161
Bifenthrin	75.3		P	10 - 119
Chlorothalonil	133		P	26 - 186
Cis-Nonachlor	66.9		P	42 - 119
Cypermethrin	111		P	22 - 150
Dacthal	98.6		P	72 - 119
DDD-p,p'	82.3		P	45 - 107
DDE-p,p'	78.5		P	48 - 106
DDT-p,p'	70.3		P	48 - 110
Delta-BHC	130		P	54 - 140
Deltamethrin	116		P	22 - 189
Dichlobenil	106		P	36 - 117
Dicofol	75.8		P	46 - 155
Dieldrin	88.5		P	54 - 110
Endosulfan I	89.4		P	59 - 105
Endosulfan II	83.9		P	51 - 118
Endosulfan Sulfate	94.2		P	57 - 121
Endrin	79.4		P	10 - 120
Endrin Aldehyde	74.4		P	34 - 118
Endrin Ketone	87.1		P	69 - 177
Esfenvalerate	100		P	23 - 168
Ethalfluralin	72.8		P	49 - 99.0
Fenpropathrin	108		P	34 - 117
Gamma-BHC	97.9		P	72 - 117
Gamma-Chlordane	84.2		P	43 - 106
Heptachlor	68.6		P	41 - 98.0
Heptachlor Epoxide	85.1		P	57 - 106
Hexachlorobenzene	72.7		P	36 - 99.0
Kepone	65.6		P	16 - 215
Lambda-Cyhalothrin	87.6		P	21 - 177
Methoprene	71.8		P	10 - 119
Methoxychlor	87.6		P	60 - 112
MGK-264	96.5		P	26 - 122
Mirex	77.3		P	10 - 169
Oxychlordane	79.9		P	43 - 105
PCB-1016	76.4		P	48 - 112
PCB-1260	74.7		P	44 - 118
Permethrin	98.0		P	24 - 148
Phenothrin	86.2		P	10 - 106
Piperonyl Butoxide	131		P	10 - 139
Prallethrin	80.8		P	17 - 109
Tau-Fluvalinate	91.8		P	13 - 131
Tetramethrin	106		P	10 - 132
Trans-Nonachlor	71.3		P	44 - 106
Triclosan Methyl	91.7		P	59 - 109
Trifluralin	77.4		P	44 - 101

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.1		P	50 - 150
Acetochlor	90.4		P	70 - 121
Alachlor	82.5		P	68 - 119
Ametryn	93.7		P	64 - 139
Atrazine	90.5		P	76 - 120
Atrazine Desethyl	63.5		P	44 - 126
Avobenzone	88.9		P	76 - 212
Azinphos Methyl	98.1		P	43 - 192
Azoxystrobin	97.1		P	36 - 224
Bromacil	79.4		P	52 - 121
Butylate	37.2		P	28 - 91.0
Caffeine	83.4		P	50 - 134
Carbophenothion	81.2		P	56 - 129
Carfentrazone Ethyl	89.9		P	60 - 141
Chlorfenapyr	85.8		P	56 - 115
Chlorpyrifos Ethyl	88.8		P	60 - 118
Chlorpyrifos Methyl	92.7		P	68 - 119
Coumaphos	87.5		P	18 - 250
Cyanazine	82.6		P	61 - 250
Cyprodinil	85.1		P	55 - 145
Dechlorane Plus	112		P	50 - 150
Demeton	69.5		P	30 - 159
Diazinon	84.5		P	70 - 123
Difenoconazole	102		P	49 - 204
Dimethenamid	70.5		P	64 - 115
Dimethomorph	83.7		P	12 - 219
Disulfoton	81.9		P	44 - 125
Dithiopyr	92.5		P	64 - 115
EPTC	33.9		P	28 - 86.0
Ethion	91.8		P	33 - 125
Ethoprop	72.6		P	64 - 116
Etridiazole	38.7		P	34 - 91.0
Fenamiphos	86.6		P	12 - 127
Fenbuconazole	89.1		P	59 - 151
Fipronil	86.5		P	67 - 129
Fipronil Desulfinyl	94.5		P	65 - 127
Fipronil Sulfide	81.5		P	61 - 116
Fipronil Sulfone	76.8		P	55 - 117
Fluazifop-P-butyl	90.9		P	62 - 127
Fludioxonil	81.1		P	62 - 128
Flumioxazin	106		P	33 - 250
Flutolanil	86.7		P	56 - 127
Fluxapyroxad	80.1		P	45 - 128
Fonofos	79.1		P	62 - 111
Hexazinone	84.4		P	46 - 139
Imazalil	77.3		P	38 - 142
Iprodione	85.2		P	47 - 135
Loratadine	80.4		P	10 - 244
Malathion	98.1		P	61 - 139
Metalaxyl	83.8		P	10 - 119
Metolachlor	81.4		P	65 - 118
Metribuzin	96.3		P	51 - 250

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	64.0		P	53 - 121
Molinate	48.9		P	42 - 96.0
Myclobutanil	87.2		P	55 - 128
Naled	75.7		P	10 - 98.0
Napropamide	76.7		P	49 - 121
Norflurazon	77.8		P	61 - 126
Octinoxate	91.3		P	30 - 159
Oxadiazon	71.7		P	59 - 116
Oxybenzone	82.7		P	61 - 139
Oxyfluorfen	98.7		P	64 - 137
Parathion Ethyl	90.6		P	70 - 112
Parathion Methyl	98.7		P	76 - 133
PBDE-47	91.9		P	50 - 150
PBDE-99	95.6		P	50 - 150
Pendimethalin	94.0		P	52 - 117
Phenytoin	49.2		P	10 - 199
Phorate	68.0		P	48 - 121
Prodiamine	42.3		P	26 - 142
Prometon	75.0		P	43 - 123
Prometryn	81.6		P	66 - 127
Pronamide	93.2		P	75 - 121
Propanil	83.7		P	45 - 150
Propargite	76.4		P	42 - 208
Propiconazole	77.6		P	60 - 125
Pyraflufen Ethyl	77.9		P	70 - 138
Pyridaben	91.4		P	35 - 245
Pyriproxyfen	81.9		P	30 - 149
Simazine	84.2		P	72 - 125
Stirophos	80.2		P	29 - 164
Sulfentrazone	70.8		P	21 - 139
Tebuconazole	65.7		P	10 - 115
Terbufos	93.7		P	60 - 123
Terbuthylazine	85.6		P	72 - 115
Thiobencarb	80.6		P	31 - 139
Tri-o-cresyl Phosphate	91.8		P	50 - 150
Triadimefon	85.3		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.6		P	10 - 92.0
Alpha-BHC	74.6		F	75 - 107
Alpha-Chlordane	55.6		P	50 - 108
Beta-BHC	95.4		P	36 - 138
Beta-Cyfluthrin	45.1		P	20 - 161
Bifenthrin	45.6		P	10 - 119
Chlorothalonil	104		P	26 - 186
Cis-Nonachlor	47.7		P	42 - 119
Cypermethrin	47.1		P	22 - 150
Dacthal	72.1		P	72 - 119
DDD-p,p'	56.3		P	45 - 107

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	54.4		P	48 - 106
DDT-p,p'	59.9		P	48 - 110
Delta-BHC	102		P	54 - 140
Deltamethrin	57.6		P	22 - 189
Dichlobenil	64.2		P	36 - 117
Dicofol	72.0		P	46 - 155
Dieldrin	60.7		P	54 - 110
Endosulfan I	68.6		P	59 - 105
Endosulfan II	59.3		P	51 - 118
Endosulfan Sulfate	68.5		P	57 - 121
Endrin	59.5		P	10 - 120
Endrin Aldehyde	63.9		P	34 - 118
Endrin Ketone	73.7		P	69 - 177
Esfenvalerate	42.9		P	23 - 168
Ethalfluralin	61.6		P	49 - 99.0
Fenpropathrin	46.7		P	34 - 117
Gamma-BHC	83.4		P	72 - 117
Gamma-Chlordane	53.1		P	43 - 106
Heptachlor	53.4		P	41 - 98.0
Heptachlor Epoxide	64.0		P	57 - 106
Hexachlorobenzene	58.7		P	36 - 99.0
Kepone	110		P	16 - 215
Lambda-Cyhalothrin	35.9		P	21 - 177
Methoprene	30.3		P	10 - 119
Methoxychlor	101		P	60 - 112
MGK-264	63.2		P	26 - 122
Mirex	37.4		P	10 - 169
Oxychlordane	63.6		P	43 - 105
PCB-1016	91.3		P	48 - 112
PCB-1260	91.2		P	44 - 118
Permethrin	44.4		P	24 - 148
Phenothrin	25.5		P	10 - 106
Piperonyl Butoxide	85.4		P	10 - 139
Prallethrin	56.2		P	17 - 109
Tau-Fluvalinate	35.1		P	13 - 131
Tetramethrin	77.7		P	10 - 132
Trans-Nonachlor	51.8		P	44 - 106
Triclosan Methyl	62.6		P	59 - 109
Trifluralin	62.5		P	44 - 101

Reference Method: EPA 8276
Batch ID: P418151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.1		P	61 - 116
Toxaphene	101		P	48 - 124

Reference Method: EPA 8276
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	94.3		P	61 - 116

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	90.9		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P417966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.5		P	40 - 150
AMPA	101		P	40 - 150
Endothall	107		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	105		P	40 - 150
Sucralose	102		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	119		P	40 - 150
2,4,5-T	99.8		P	40 - 150
Acetaminophen	91.4		P	30 - 150
Acetamiprid	95.5		P	40 - 150
Afidopyropen	73.4		P	30 - 150
Bentazon	99.2		P	30 - 150
Benzovindiflupyr	108		P	40 - 150
Carbamazepine	108		P	40 - 150
Clothianidin	102		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	77.5		P	40 - 150
Fenuron	104		P	40 - 150
Fluridone	106		P	40 - 150
Hydrocodone	103		P	40 - 150
Ibuprofen	119		P	40 - 150
Imazapyr	110		P	40 - 150
Imidacloprid	100		P	40 - 150
Linuron	97.7		P	40 - 150
Mandestrobin	107		P	40 - 150
MCPP	111		P	40 - 150
Naproxen	84.4		P	40 - 150
Primidone	100		P	40 - 150
Pyraclostrobin	100		P	40 - 150
Silvex	111		P	40 - 150
Thiamethoxam	114		P	40 - 150
Tolfenpyrad	86.7		P	30 - 150
Triclopyr	96.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	91.7		P	40 - 150
Aldicarb	55.0		P	30 - 150
Aldicarb Sulfone	110		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P417969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfoxide	110		P	40 - 150
Carbaryl	101		P	40 - 150
Carbofuran	95.8		P	40 - 150
Methiocarb	117		P	40 - 150
Methomyl	99.7		P	40 - 150
Oxamyl	113		P	40 - 150
Propoxur	83.4		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348839	Aldrin	56.3	55.7	P/P	20 - 82.0
2348839	Alpha-BHC	94.9	87.2	P/P	71 - 109
2348839	Alpha-Chlordane	67.0	68.9	P/P	42 - 106
2348839	Beta-BHC	116	115	P/P	69 - 180
2348839	Beta-Cyfluthrin	71.9	80.0	P/P	18 - 175
2348839	Bifenthrin	45.9	51.5	P/P	21 - 128
2348839	Chlorothalonil	92.5	91.8	P/P	10 - 300
2348839	Cis-Nonachlor	66.5	65.7	P/P	34 - 106
2348839	Cypermethrin	70.3	78.4	P/P	22 - 158
2348839	Dacthal	89.8	86.8	P/P	54 - 116
2348839	DDD-p,p'	67.0	61.9	P/P	34 - 107
2348839	DDE-p,p'	70.6	70.0	P/P	33 - 110
2348839	DDT-p,p'	69.0	73.3	P/P	50 - 122
2348839	Delta-BHC	125	127	P/P	77 - 193
2348839	Deltamethrin	67.7	94.0	P/P	10 - 195
2348839	Dichlobenil	116	113	F/P	25 - 113
2348839	Dicofol	121	117	P/P	38 - 247
2348839	Dieldrin	75.9	74.7	P/P	45 - 118
2348839	Endosulfan I	79.9	80.4	P/P	51 - 106
2348839	Endosulfan II	80.4	77.4	P/P	37 - 122
2348839	Endosulfan Sulfate	97.8	88.6	P/P	43 - 132
2348839	Endrin	77.7	75.0	P/P	29 - 101
2348839	Endrin Aldehyde	84.4	78.5	P/P	19 - 110
2348839	Endrin Ketone	92.0	90.1	P/P	60 - 140
2348839	Esfenvalerate	73.4	81.9	P/P	26 - 199
2348839	Ethalfluralin	78.8	82.3	P/P	45 - 99.0
2348839	Fenpropathrin	67.4	70.8	P/P	35 - 120
2348839	Gamma-BHC	108	108	P/P	63 - 128
2348839	Gamma-Chlordane	69.6	70.6	P/P	40 - 104
2348839	Heptachlor	66.7	66.3	P/P	36 - 97.0
2348839	Heptachlor Epoxide	82.1	81.1	P/P	49 - 184
2348839	Hexachlorobenzene	69.2	69.8	P/P	39 - 96.0
2348839	Kepone	157	157	P/P	10 - 217
2348839	Lambda-Cyhalothrin	60.0	68.6	P/P	21 - 193
2348839	Methoprene	54.5	59.3	P/P	20 - 106
2348839	Methoxychlor	79.6	87.9	P/P	53 - 118
2348839	MGK-264	85.5	83.7	P/P	40 - 118
2348839	Mirex	54.2	56.8	P/P	26 - 92.0
2348839	Oxychlordane	81.3	78.5	P/P	44 - 99.0
2348839	Permethrin	69.3	77.4	P/P	33 - 182
2348839	Phenothrin	51.8	61.0	P/P	10 - 129
2348839	Piperonyl Butoxide	92.2	95.2	P/P	10 - 211
2348839	Prallethrin	77.9	84.2	P/P	24 - 113
2348839	Tau-Fluvalinate	62.9	70.7	P/P	14 - 149
2348839	Tetramethrin	69.7	77.1	P/P	17 - 151
2348839	Trans-Nonachlor	67.4	66.7	P/P	42 - 102
2348839	Triclosan Methyl	79.8	77.1	P/P	48 - 108
2348839	Trifluralin	73.7	78.7	P/P	47 - 96.0
2348845	PCB-1016	90.3	86.2	P/P	46 - 111
2348845	PCB-1260	92.3	86.7	P/P	45 - 114

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348187	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121	126	P/P	50 - 150
2348187	Acetochlor	82.3	101	P/P	65 - 124
2348187	Alachlor	70.4	89.7	P/P	61 - 121
2348187	Ametryn	67.9	66.2	P/P	52 - 216
2348187	Atrazine Desethyl	53.6	57.8	P/P	15 - 160
2348187	Avobenzone	95.6	99.9	P/P	59 - 206
2348187	Azinphos Methyl	87.3	96.3	P/P	40 - 292
2348187	Azoxystrobin	93.8	116	P/P	12 - 242
2348187	Bromacil	80.8	86.6	P/P	54 - 167
2348187	Butylate	29.6	30.2	P/P	14 - 94.0
2348187	Caffeine	98.5	98.3	P/P	10 - 226
2348187	Carbophenothion	71.5	76.5	P/P	49 - 122
2348187	Carfentrazone Ethyl	77.3	82.9	P/P	53 - 138
2348187	Chlorfenapyr	67.8	74.3	P/P	50 - 150
2348187	Chlorpyrifos Ethyl	98.0	99.4	P/P	52 - 122
2348187	Chlorpyrifos Methyl	84.0	96.0	P/P	66 - 117
2348187	Coumaphos	75.2	84.6	P/P	50 - 220
2348187	Cyanazine	78.4	82.3	P/P	43 - 245
2348187	Cyprodinil	76.2	85.9	P/P	50 - 150
2348187	Dechlorane Plus	139	133	P/P	50 - 150
2348187	Demeton	72.9	83.4	P/P	43 - 188
2348187	Diazinon	77.4	92.3	P/P	69 - 131
2348187	Difenoconazole	97.8	115	P/P	34 - 231
2348187	Dimethenamid	68.9	81.6	P/P	55 - 118
2348187	Dimethomorph	96.2	106	P/P	50 - 150
2348187	Disulfoton	78.6	91.3	P/P	38 - 141
2348187	Dithiopyr	61.3	73.6	P/P	42 - 116
2348187	EPTC	28.7	24.8	P/P	18 - 85.0
2348187	Ethion	73.6	70.4	P/P	10 - 131
2348187	Ethoprop	79.1	91.2	P/P	65 - 129
2348187	Etridiazole	37.5	37.5	F/F	50 - 150
2348187	Fenamiphos	70.7	72.2	P/P	31 - 137
2348187	Fenbuconazole	74.7	83.0	P/P	57 - 160
2348187	Fipronil	74.9	92.7	P/P	62 - 132
2348187	Fipronil Desulfinyl	94.7	105	P/P	57 - 131
2348187	Fipronil Sulfide	76.5	94.1	P/P	15 - 138
2348187	Fluazifop-P-butyl	78.0	86.9	P/P	54 - 133
2348187	Fludioxonil	72.2	89.5	P/P	58 - 127
2348187	Flumioxazin	98.0	125	P/P	33 - 300
2348187	Flutolanil	51.2	63.1	P/P	42 - 130
2348187	Fluxapyroxad	72.0	83.5	P/P	23 - 141
2348187	Fonofos	81.9	85.8	P/P	58 - 119
2348187	Hexazinone	90.0	100	P/P	68 - 172
2348187	Imazalil	80.4	77.0	P/P	48 - 283
2348187	Iprodione	70.8	80.1	P/P	38 - 140
2348187	Loratadine	91.6	102	P/P	50 - 150
2348187	Malathion	91.5	103	P/P	40 - 137
2348187	Metalaxyl	74.4	82.4	P/P	21 - 129
2348187	Metolachlor	76.3	92.7	P/P	55 - 122
2348187	Metribuzin	93.8	117	P/P	38 - 187
2348187	Mevinphos	67.7	74.7	P/P	54 - 134
2348187	Molinate	49.0	52.1	P/P	41 - 97.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348187	Myclobutanil	92.4	114	P/P	56 - 125
2348187	Naled	73.9	105	P/P	10 - 108
2348187	Napropamide	63.3	73.8	P/P	50 - 150
2348187	Norflurazon	65.1	78.1	P/P	32 - 122
2348187	Octinoxate	103	110	P/P	25 - 150
2348187	Oxybenzone	107	106	P/P	59 - 147
2348187	Oxyfluorfen	90.1	106	P/P	61 - 153
2348187	Parathion Ethyl	87.9	101	P/P	59 - 130
2348187	Parathion Methyl	96.2	115	P/P	65 - 155
2348187	PBDE-47	108	114	P/P	50 - 150
2348187	PBDE-99	106	111	P/P	50 - 150
2348187	Pendimethalin	100	114	P/P	49 - 138
2348187	Phenytoin	36.8	45.7	F/F	50 - 200
2348187	Phorate	68.4	78.3	P/P	54 - 161
2348187	Prodiamine	48.8	53.2	P/P	33 - 161
2348187	Prometon	74.7	72.5	P/P	48 - 140
2348187	Prometryn	73.1	77.4	P/P	55 - 134
2348187	Pronamide	77.9	91.8	P/P	66 - 137
2348187	Propanil	68.8	86.9	P/P	50 - 150
2348187	Propargite	52.5	59.7	P/P	50 - 200
2348187	Propiconazole	74.6	95.0	P/P	36 - 150
2348187	Pyraflufen Ethyl	64.9	72.8	P/P	50 - 150
2348187	Pyridaben	101	96.8	P/P	50 - 200
2348187	Pyriproxyfen	61.4	76.5	P/P	10 - 165
2348187	Stirophos	61.7	64.9	P/P	50 - 150
2348187	Sulfentrazone	84.1	113	P/P	34 - 140
2348187	Tebuconazole	49.6	54.6	P/P	10 - 127
2348187	Terbufos	98.3	113	P/P	59 - 138
2348187	Terbuthylazine	82.6	95.1	P/P	68 - 119
2348187	Thiobencarb	67.9	79.3	P/P	50 - 150
2348187	Tri-o-cresyl Phosphate	96.2	101	P/P	50 - 150
2348187	Triadimefon	67.3	77.9	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348185	PCB-1016	80.4	68.9	P/P	46 - 111
2348185	PCB-1260	78.7	69.6	P/P	45 - 114
2348248	Aldrin	47.3	51.5	P/P	20 - 82.0
2348248	Alpha-BHC	69.6	81.4	F/P	71 - 109
2348248	Alpha-Chlordane	42.9	45.5	P/P	42 - 106
2348248	Beta-BHC	99.7	110	P/P	69 - 180
2348248	Beta-Cyfluthrin	61.4	58.6	P/P	18 - 175
2348248	Bifenthrin	75.9	60.2	P/P	21 - 128
2348248	Chlorothalonil	166	190	P/P	10 - 300
2348248	Cis-Nonachlor	42.4	41.9	P/P	34 - 106
2348248	Cypermethrin	63.1	61.3	P/P	22 - 158
2348248	Dacthal	62.4	67.2	P/P	54 - 116
2348248	DDD-p,p'	44.2	43.2	P/P	34 - 107
2348248	DDE-p,p'	39.3	40.2	P/P	33 - 110
2348248	DDT-p,p'	56.7	59.5	P/P	50 - 122

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348248	Delta-BHC	115	126	P/P	77 - 193
2348248	Deltamethrin	80.3	75.5	P/P	10 - 195
2348248	Dichlobenil	42.1	41.3	P/P	25 - 113
2348248	Dicofol	105	90.5	P/P	38 - 247
2348248	Dieldrin	47.1	46.9	P/P	45 - 118
2348248	Endosulfan I	59.4	60.8	P/P	51 - 106
2348248	Endosulfan II	45.2	43.4	P/P	37 - 122
2348248	Endosulfan Sulfate	49.5	50.3	P/P	43 - 132
2348248	Endrin	50.8	49.6	P/P	29 - 101
2348248	Endrin Aldehyde	40.2	36.5	P/P	19 - 110
2348248	Endrin Ketone	81.2	76.7	P/P	60 - 140
2348248	Esfenvalerate	67.5	64.3	P/P	26 - 199
2348248	Ethalfluralin	64.0	68.8	P/P	45 - 99.0
2348248	Fenpropathrin	50.1	49.6	P/P	35 - 120
2348248	Gamma-BHC	94.0	110	P/P	63 - 128
2348248	Gamma-Chlordane	51.6	53.0	P/P	40 - 104
2348248	Heptachlor	54.2	58.0	P/P	36 - 97.0
2348248	Heptachlor Epoxide	58.5	59.4	P/P	49 - 184
2348248	Hexachlorobenzene	63.6	69.8	P/P	39 - 96.0
2348248	Kepone	83.7	74.4	P/P	10 - 217
2348248	Lambda-Cyhalothrin	62.6	62.0	P/P	21 - 193
2348248	Methoprene	50.1	61.1	P/P	20 - 106
2348248	Methoxychlor	103	80.8	P/P	53 - 118
2348248	MGK-264	57.7	66.3	P/P	40 - 118
2348248	Mirex	42.2	40.8	P/P	26 - 92.0
2348248	Oxychlordane	68.8	64.1	P/P	44 - 99.0
2348248	Permethrin	62.5	62.1	P/P	33 - 182
2348248	Phenothrin	52.3	56.0	P/P	10 - 129
2348248	Piperonyl Butoxide	77.0	83.5	P/P	10 - 211
2348248	Prallethrin	55.7	57.5	P/P	24 - 113
2348248	Tau-Fluvalinate	60.9	58.1	P/P	14 - 149
2348248	Tetramethrin	64.0	56.0	P/P	17 - 151
2348248	Trans-Nonachlor	47.3	48.0	P/P	42 - 102
2348248	Triclosan Methyl	50.2	51.3	P/P	48 - 108
2348248	Trifluralin	63.5	66.7	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P418151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348845	Chlordane	104	97.4	P/P	53 - 126
2348845	Toxaphene	112	105	P/P	56 - 211

Reference Method: EPA 8276
Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348185	Chlordane	82.5	67.8	P/P	53 - 126
2348185	Toxaphene	89.5	77.1	P/P	56 - 211

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P417966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348339	Acesulfame K	95.7	92.2	P/P	40 - 150
2348339	AMPA	79.7	82.1	P/P	40 - 150
2348339	Endothall	96.5	103	P/P	40 - 150
2348339	Glufosinate	101	97.9	P/P	40 - 150
2348339	Glyphosate	75.9	80.5	P/P	40 - 150
2348339	Sucralose	99.9	95.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348048	2,4-D	93.9	115	P/P	40 - 150
2348048	2,4,5-T	87.1	103	P/P	40 - 150
2348048	Acetaminophen	87.0	88.4	P/P	30 - 150
2348048	Acetamiprid	87.6	88.9	P/P	40 - 150
2348048	Afidopyropen	82.9	74.1	P/P	30 - 150
2348048	Bentazon	81.5	80.3	P/P	30 - 150
2348048	Benzovindiflupyr	103	104	P/P	40 - 150
2348048	Carbamazepine	112	115	P/P	40 - 150
2348048	Clothianidin	114	123	P/P	40 - 150
2348048	Dinotefuran	126	131	P/P	40 - 150
2348048	Diuron	87.4	92.4	P/P	40 - 150
2348048	Fenuron	99.2	98.4	P/P	40 - 150
2348048	Fluridone	96.4	117	P/P	40 - 150
2348048	Hydrocodone	108	121	P/P	40 - 150
2348048	Ibuprofen	70.2	92.7	P/P	40 - 150
2348048	Imazapyr	109	126	P/P	40 - 150
2348048	Imidacloprid	131	132	P/P	40 - 150
2348048	Linuron	136	92.0	P/P	40 - 150
2348048	Mandestrobin	100	104	P/P	40 - 150
2348048	MCPP	95.0	113	P/P	40 - 150
2348048	Naproxen	85.0	82.8	P/P	40 - 150
2348048	Primidone	99.1	99.4	P/P	40 - 150
2348048	Pyraclostrobin	97.7	104	P/P	40 - 150
2348048	Silvex	90.4	111	P/P	40 - 150
2348048	Thiamethoxam	137	140	P/P	40 - 150
2348048	Tolfenpyrad	62.5	59.2	P/P	30 - 150
2348048	Triclopyr	83.1	96.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348450	3-Hydroxycarbofuran	98.5	96.1	P/P	40 - 150
2348450	Aldicarb	46.1	48.2	P/P	30 - 150
2348450	Aldicarb Sulfone	112	120	P/P	40 - 150
2348450	Aldicarb Sulfoxide	56.9	60.0	P/P	40 - 150
2348450	Carbaryl	72.2	89.1	P/P	40 - 150
2348450	Carbofuran	70.9	72.7	P/P	40 - 150
2348450	Methiocarb	107	94.9	P/P	40 - 150
2348450	Methomyl	86.5	91.2	P/P	40 - 150
2348450	Oxamyl	102	108	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P417969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348450	Propoxur	69.1	69.2	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348839	Aldrin	1.00	Spike	P	0 - 41
2348839	Alpha-BHC	8.48	Spike	P	0 - 25
2348839	Alpha-Chlordane	2.80	Spike	P	0 - 33
2348839	Beta-BHC	0.456	Spike	P	0 - 36
2348839	Beta-Cyfluthrin	10.7	Spike	P	0 - 42
2348839	Bifenthrin	11.4	Spike	P	0 - 53
2348839	Chlorothalonil	0.738	Spike	P	0 - 71
2348839	Cis-Nonachlor	1.20	Spike	P	0 - 29
2348839	Cypermethrin	10.8	Spike	P	0 - 40
2348839	Dacthal	3.48	Spike	P	0 - 26
2348839	DDD-p,p'	7.91	Spike	P	0 - 39
2348839	DDE-p,p'	0.844	Spike	P	0 - 33
2348839	DDT-p,p'	6.04	Spike	P	0 - 40
2348839	Delta-BHC	1.65	Spike	P	0 - 37
2348839	Deltamethrin	32.5	Spike	P	0 - 100
2348839	Dichlobenil	2.83	Spike	P	0 - 40
2348839	Dicofol	4.02	Spike	P	0 - 31
2348839	Dieldrin	1.61	Spike	P	0 - 27
2348839	Endosulfan I	0.649	Spike	P	0 - 23
2348839	Endosulfan II	3.72	Spike	P	0 - 28
2348839	Endosulfan Sulfate	9.90	Spike	P	0 - 38
2348839	Endrin	3.49	Spike	P	0 - 63
2348839	Endrin Aldehyde	7.28	Spike	P	0 - 60
2348839	Endrin Ketone	2.11	Spike	P	0 - 37
2348839	Esfenvalerate	11.0	Spike	P	0 - 52
2348839	Ethalfluralin	4.32	Spike	P	0 - 23
2348839	Fenpropathrin	4.90	Spike	P	0 - 32
2348839	Gamma-BHC	0.0724	Spike	P	0 - 17
2348839	Gamma-Chlordane	1.41	Spike	P	0 - 40
2348839	Heptachlor	0.562	Spike	P	0 - 29
2348839	Heptachlor Epoxide	1.23	Spike	P	0 - 25
2348839	Hexachlorobenzene	0.826	Spike	P	0 - 36
2348839	Kepone	0.0218	Spike	P	0 - 93
2348839	Lambda-Cyhalothrin	13.3	Spike	P	0 - 55
2348839	Methoprene	8.36	Spike	P	0 - 53
2348839	Methoxychlor	9.90	Spike	P	0 - 29
2348839	MGK-264	2.12	Spike	P	0 - 35
2348839	Mirex	4.68	Spike	P	0 - 46
2348839	Oxychlordane	3.45	Spike	P	0 - 29
2348839	Permethrin	11.1	Spike	P	0 - 44
2348839	Phenothrin	16.4	Spike	P	0 - 56
2348839	Piperonyl Butoxide	3.27	Spike	P	0 - 100
2348839	Prallethrin	7.77	Spike	P	0 - 42
2348839	Tau-Fluvalinate	11.6	Spike	P	0 - 54
2348839	Tetramethrin	10.0	Spike	P	0 - 51
2348839	Trans-Nonachlor	1.04	Spike	P	0 - 37
2348839	Triclosan Methyl	3.43	Spike	P	0 - 31
2348839	Trifluralin	6.54	Spike	P	0 - 30
2348845	PCB-1016	4.69	Spike	P	0 - 32
2348845	PCB-1260	6.32	Spike	P	0 - 31

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.62	Spike	P	0 - 30
2348187	Acetochlor	20.4	Spike	P	0 - 27
2348187	Alachlor	24.1	Spike	P	0 - 27
2348187	Ametryn	1.12	Spike	P	0 - 34
2348187	Atrazine	3.06	Spike	P	0 - 41
2348187	Atrazine Desethyl	3.60	Spike	P	0 - 38
2348187	Avobenzone	4.40	Spike	P	0 - 30
2348187	Azinphos Methyl	9.80	Spike	P	0 - 62
2348187	Azoxystrobin	14.7	Spike	P	0 - 32
2348187	Bromacil	6.94	Spike	P	0 - 30
2348187	Butylate	2.07	Spike	P	0 - 59
2348187	Caffeine	0.242	Spike	P	0 - 60
2348187	Carbophenothion	6.85	Spike	P	0 - 25
2348187	Carfentrazone Ethyl	6.96	Spike	P	0 - 26
2348187	Chlorfenapyr	9.15	Spike	P	0 - 30
2348187	Chlorpyrifos Ethyl	1.42	Spike	P	0 - 27
2348187	Chlorpyrifos Methyl	13.4	Spike	P	0 - 26
2348187	Coumaphos	11.8	Spike	P	0 - 30
2348187	Cyanazine	4.83	Spike	P	0 - 58
2348187	Cyprodinil	12.0	Spike	P	0 - 30
2348187	Dechlorane Plus	4.39	Spike	P	0 - 30
2348187	Demeton	13.5	Spike	P	0 - 25
2348187	Diazinon	17.5	Spike	P	0 - 29
2348187	Difenoconazole	16.3	Spike	P	0 - 25
2348187	Dimethenamid	16.9	Spike	P	0 - 30
2348187	Dimethomorph	9.90	Spike	P	0 - 30
2348187	Disulfoton	14.9	Spike	P	0 - 33
2348187	Dithiopyr	13.7	Spike	P	0 - 22
2348187	EPTC	14.4	Spike	P	0 - 38
2348187	Ethion	4.40	Spike	P	0 - 79
2348187	Ethoprop	14.2	Spike	P	0 - 23
2348187	Etridiazole	0.0601	Spike	P	0 - 30
2348187	Fenamiphos	2.10	Spike	P	0 - 58
2348187	Fenbuconazole	10.5	Spike	P	0 - 37
2348187	Fipronil	19.3	Spike	P	0 - 33
2348187	Fipronil Desulfinyl	6.80	Spike	P	0 - 26
2348187	Fipronil Sulfide	13.4	Spike	P	0 - 37
2348187	Fipronil Sulfone	11.4	Spike	P	0 - 50
2348187	Fluazifop-P-butyl	10.8	Spike	P	0 - 24
2348187	Fludioxonil	21.4	Spike	P	0 - 26
2348187	Flumioxazin	24.4	Spike	P	0 - 37
2348187	Flutolanil	16.3	Spike	P	0 - 26
2348187	Fluxapyroxad	10.6	Spike	P	0 - 34
2348187	Fonofos	4.66	Spike	P	0 - 27
2348187	Hexazinone	10.9	Spike	P	0 - 36
2348187	Imazalil	4.33	Spike	P	0 - 65
2348187	Iprodione	12.3	Spike	P	0 - 33
2348187	Loratadine	10.4	Spike	P	0 - 30
2348187	Malathion	12.1	Spike	P	0 - 44
2348187	Metalaxyl	10.2	Spike	P	0 - 38
2348187	Metolachlor	12.9	Spike	P	0 - 36

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	Metribuzin	22.0	Spike	P	0 - 63
2348187	Mevinphos	9.87	Spike	P	0 - 26
2348187	Molinate	6.03	Spike	P	0 - 40
2348187	Myclobutanil	11.1	Spike	P	0 - 21
2348187	Naled	34.4	Spike	F	0 - 26
2348187	Napropamide	15.3	Spike	P	0 - 30
2348187	Norflurazon	18.1	Spike	P	0 - 24
2348187	Octinoxate	6.95	Spike	P	0 - 30
2348187	Oxadiazon	6.63	Spike	P	0 - 27
2348187	Oxybenzone	1.29	Spike	P	0 - 30
2348187	Oxyfluorfen	16.5	Spike	P	0 - 24
2348187	Parathion Ethyl	13.9	Spike	P	0 - 28
2348187	Parathion Methyl	17.8	Spike	P	0 - 27
2348187	PBDE-47	5.50	Spike	P	0 - 30
2348187	PBDE-99	5.21	Spike	P	0 - 30
2348187	Pendimethalin	13.0	Spike	P	0 - 31
2348187	Phenytoin	21.5	Spike	P	0 - 30
2348187	Phorate	13.5	Spike	P	0 - 27
2348187	Prodiamine	8.63	Spike	P	0 - 52
2348187	Prometon	3.00	Spike	P	0 - 31
2348187	Prometryn	5.77	Spike	P	0 - 28
2348187	Pronamide	16.3	Spike	P	0 - 26
2348187	Propanil	23.2	Spike	P	0 - 30
2348187	Propargite	12.9	Spike	P	0 - 30
2348187	Propiconazole	15.2	Spike	P	0 - 31
2348187	Pyraflufen Ethyl	11.5	Spike	P	0 - 30
2348187	Pyridaben	4.00	Spike	P	0 - 30
2348187	Pyriproxyfen	21.8	Spike	P	0 - 50
2348187	Simazine	0.368	Spike	P	0 - 29
2348187	Stirophos	5.16	Spike	P	0 - 30
2348187	Sulfentrazone	15.6	Spike	P	0 - 33
2348187	Tebuconazole	8.02	Spike	P	0 - 44
2348187	Terbufos	14.1	Spike	P	0 - 29
2348187	Terbuthylazine	14.0	Spike	P	0 - 27
2348187	Thiobencarb	15.5	Spike	P	0 - 30
2348187	Tri-o-cresyl Phosphate	4.42	Spike	P	0 - 30
2348187	Triadimefon	14.6	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348185	PCB-1016	15.4	Spike	P	0 - 32
2348185	PCB-1260	12.3	Spike	P	0 - 31
2348248	Aldrin	8.53	Spike	P	0 - 41
2348248	Alpha-BHC	15.7	Spike	P	0 - 25
2348248	Alpha-Chlordane	5.00	Spike	P	0 - 33
2348248	Beta-BHC	9.44	Spike	P	0 - 36
2348248	Beta-Cyfluthrin	4.65	Spike	P	0 - 42
2348248	Bifenthrin	23.0	Spike	P	0 - 53

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348248	Chlorothalonil	13.2	Spike	P	0 - 71
2348248	Cis-Nonachlor	1.10	Spike	P	0 - 29
2348248	Cypermethrin	2.93	Spike	P	0 - 40
2348248	Dacthal	7.47	Spike	P	0 - 26
2348248	DDD-p,p'	2.31	Spike	P	0 - 39
2348248	DDE-p,p'	1.96	Spike	P	0 - 33
2348248	DDT-p,p'	4.55	Spike	P	0 - 40
2348248	Delta-BHC	9.24	Spike	P	0 - 37
2348248	Deltamethrin	6.22	Spike	P	0 - 100
2348248	Dichlobenil	2.08	Spike	P	0 - 40
2348248	Dicofol	14.7	Spike	P	0 - 31
2348248	Dieldrin	0.407	Spike	P	0 - 27
2348248	Endosulfan I	2.34	Spike	P	0 - 23
2348248	Endosulfan II	4.02	Spike	P	0 - 28
2348248	Endosulfan Sulfate	1.59	Spike	P	0 - 38
2348248	Endrin	2.50	Spike	P	0 - 63
2348248	Endrin Aldehyde	9.74	Spike	P	0 - 60
2348248	Endrin Ketone	5.64	Spike	P	0 - 37
2348248	Esfenvalerate	4.98	Spike	P	0 - 52
2348248	Ethalfluralin	7.17	Spike	P	0 - 23
2348248	Fenpropathrin	1.18	Spike	P	0 - 32
2348248	Gamma-BHC	15.7	Spike	P	0 - 17
2348248	Gamma-Chlordane	2.66	Spike	P	0 - 40
2348248	Heptachlor	6.73	Spike	P	0 - 29
2348248	Heptachlor Epoxide	1.51	Spike	P	0 - 25
2348248	Hexachlorobenzene	9.37	Spike	P	0 - 36
2348248	Kepone	11.8	Spike	P	0 - 93
2348248	Lambda-Cyhalothrin	0.985	Spike	P	0 - 55
2348248	Methoprene	19.8	Spike	P	0 - 53
2348248	Methoxychlor	24.3	Spike	P	0 - 29
2348248	MGK-264	13.8	Spike	P	0 - 35
2348248	Mirex	3.46	Spike	P	0 - 46
2348248	Oxychlordane	7.12	Spike	P	0 - 29
2348248	Permethrin	0.592	Spike	P	0 - 44
2348248	Phenothrin	6.87	Spike	P	0 - 56
2348248	Piperonyl Butoxide	7.28	Spike	P	0 - 100
2348248	Prallethrin	3.21	Spike	P	0 - 42
2348248	Tau-Fluvalinate	4.69	Spike	P	0 - 54
2348248	Tetramethrin	13.3	Spike	P	0 - 51
2348248	Trans-Nonachlor	1.34	Spike	P	0 - 37
2348248	Triclosan Methyl	2.23	Spike	P	0 - 31
2348248	Trifluralin	4.86	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P418151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348845	Chlordane	7.01	Spike	P	0 - 25
2348845	Toxaphene	5.98	Spike	P	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348185	Chlordane	19.6	Spike	P	0 - 25
2348185	Toxaphene	14.9	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P417966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348339	Acesulfame K	3.75	Spike	P	0 - 30
2348339	AMPA	2.43	Spike	P	0 - 30
2348339	Endothall	6.38	Spike	P	0 - 30
2348339	Glufosinate	2.79	Spike	P	0 - 30
2348339	Glyphosate	4.12	Spike	P	0 - 30
2348339	Sucralose	1.98	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348048	2,4-D	20.4	Spike	P	0 - 30
2348048	2,4,5-T	16.5	Spike	P	0 - 30
2348048	Acetaminophen	1.60	Spike	P	0 - 30
2348048	Acetamiprid	1.57	Spike	P	0 - 30
2348048	Afidopyropen	11.2	Spike	P	0 - 30
2348048	Bentazon	1.55	Spike	P	0 - 30
2348048	Benzovindiflupyr	1.15	Spike	P	0 - 30
2348048	Carbamazepine	2.63	Spike	P	0 - 30
2348048	Clothianidin	7.87	Spike	P	0 - 30
2348048	Dinotefuran	3.63	Spike	P	0 - 30
2348048	Diuron	5.54	Spike	P	0 - 30
2348048	Fenuron	0.820	Spike	P	0 - 30
2348048	Fluridone	19.1	Spike	P	0 - 30
2348048	Hydrocodone	10.9	Spike	P	0 - 30
2348048	Ibuprofen	27.7	Spike	P	0 - 30
2348048	Imazapyr	14.0	Spike	P	0 - 30
2348048	Imidacloprid	1.39	Spike	P	0 - 30
2348048	Linuron	38.4	Spike	F	0 - 30
2348048	Mandestrobin	3.60	Spike	P	0 - 30
2348048	MCPP	17.1	Spike	P	0 - 30
2348048	Naproxen	2.61	Spike	P	0 - 30
2348048	Primidone	0.312	Spike	P	0 - 30
2348048	Pyraclostrobin	6.64	Spike	P	0 - 30
2348048	Silvex	20.9	Spike	P	0 - 30
2348048	Thiamethoxam	2.01	Spike	P	0 - 30
2348048	Tolfenpyrad	5.46	Spike	P	0 - 30
2348048	Triclopyr	15.3	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P417969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348450	3-Hydroxycarbofuran	2.49	Spike	P	0 - 30
2348450	Aldicarb	4.52	Spike	P	0 - 30
2348450	Aldicarb Sulfone	6.95	Spike	P	0 - 30
2348450	Aldicarb Sulfoxide	5.20	Spike	P	0 - 30
2348450	Carbaryl	21.0	Spike	P	0 - 30
2348450	Carbofuran	2.50	Spike	P	0 - 30
2348450	Methiocarb	12.1	Spike	P	0 - 30
2348450	Methomyl	5.26	Spike	P	0 - 30
2348450	Oxamyl	5.34	Spike	P	0 - 30
2348450	Propoxur	0.229	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2348262
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.8	P	30 - 160

Lab Sample ID: 2348263
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	119	P	30 - 160
EPA 8321B	Acetaminophen-d4	74.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	110	P	30 - 160
EPA 8321B	Diuron-d6	84.2	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	99.4	P	30 - 160
EPA 8321B	Primidone-d5	109	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	30 - 160

Lab Sample ID: 2348264
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	76.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	58.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	45.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	40.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	51.5	P	30 - 101
EPA 8276	PCNB	60.4	P	48 - 121

Lab Sample ID: 2348265
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	60.5	P	20 - 200
EPA 8270E	Simazine-d10	82.4	P	71 - 140
EPA 8270E	Terbufos-d10	70.5	P	62 - 131
EPA 8270E	Terphenyl-d14	71.3	P	52 - 141

Lab Sample ID: 2348266
Field Sample ID: G2CE0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	88.3	P	29 - 130
EPA 8270E	Decachlorobiphenyl	52.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	60.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	70.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	85.1	P	30 - 101
EPA 8276	PCNB	92.8	P	48 - 121

Lab Sample ID: 2348267
Field Sample ID: FB_08102022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	77.1	P	29 - 130

Quality Assurance Report
Surrogates

Lab Sample ID: 2348267
Field Sample ID: FB_08102022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	74.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	74.1	P	30 - 97.0

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A114095
Included Lab Sample IDs: 2348263

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.3	98.8	P/P	60 - 160
Endothall	102	100	P/P	60 - 160
Glufosinate	98.8	95.3	P/P	60 - 160
Glyphosate	101	96.4	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A114121
Included Lab Sample IDs: 2348263

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	87.9	P/P	50 - 150
2,4,5-T	122	120	P/P	50 - 150
3-Hydroxycarbofuran	104	99.6	P/P	60 - 150
Acetaminophen	110	107	P/P	60 - 160
Acetamiprid	75.0	90.6	P/P	50 - 150
Afidopyropen	86.3	94.4	P/P	50 - 150
Aldicarb	115	115	P/P	60 - 150
Aldicarb Sulfone	100	101	P/P	50 - 150
Aldicarb Sulfoxide	109	110	P/P	50 - 150
Bentazon	101	103	P/P	50 - 160
Benzovindiflupyr	113	119	P/P	50 - 150
Carbamazepine	116	115	P/P	60 - 150
Carbaryl	105	109	P/P	60 - 150
Carbofuran	112	101	P/P	50 - 150
Clothianidin	79.8	71.9	P/P	60 - 150
Dinotefuran	104	111	P/P	50 - 150
Diuron	105	101	P/P	60 - 160
Fenuron	75.0	81.7	P/P	60 - 150
Fluridone	107	104	P/P	60 - 160
Hydrocodone	85.2	78.0	P/P	60 - 150
Ibuprofen	73.5	97.6	P/P	50 - 160
Imazapyr	76.3	70.1	P/P	50 - 150
Imidacloprid	84.3	86.8	P/P	60 - 150
Linuron	125	141	P/P	60 - 150
Mandestrobin	109	115	P/P	50 - 150
MCPP	108	106	P/P	50 - 150
Methiocarb	103	132	P/P	50 - 150
Methomyl	101	97.1	P/P	50 - 150
Naproxen	98.4	143	P/P	50 - 160
Oxamyl	102	102	P/P	50 - 150
Primidone	92.7	93.5	P/P	60 - 150
Propoxur	96.9	105	P/P	50 - 150
Pyraclostrobin	116	123	P/P	60 - 150
Silvex	112	91.2	P/P	50 - 150
Thiamethoxam	79.7	80.1	P/P	50 - 150
Tolfenpyrad	105	107	P/P	60 - 150
Triclopyr	94.1	112	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A114138
Included Lab Sample IDs: 2348263

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.9	91.4	P/P	60 - 160
Sucralose	97.8	98.7	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A114183
Included Lab Sample IDs: 2348264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.9		P	80 - 120
PCB-1260	98.3		P	80 - 120

Reference Method: EPA 8276
Run ID: A114201
Included Lab Sample IDs: 2348264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114206
Included Lab Sample IDs: 2348266, 2348267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.3		P	80 - 120
PCB-1260	98.9		P	80 - 120

Reference Method: EPA 8276
Run ID: A114228
Included Lab Sample IDs: 2348266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.0		P	80 - 120
Toxaphene	99.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114237
Included Lab Sample IDs: 2348266, 2348267

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

Reference Method: EPA 8270E
Run ID: A114245
Included Lab Sample IDs: 2348264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.6		P	80 - 120
Alpha-BHC	85.0		P	80 - 120
Alpha-Chlordane	111		P	80 - 120
Beta-BHC	86.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114245
Included Lab Sample IDs: 2348264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	98.1		P	80 - 120
Chlorothalonil	95.9		P	80 - 120
Cis-Nonachlor	114		P	80 - 120
Cypermethrin	99.8		P	80 - 120
Dacthal	114		P	80 - 120
DDD-p,p'	98.8		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	89.0		P	80 - 120
Deltamethrin	113		P	80 - 120
Dichlobenil	90.8		P	80 - 120
Dicofol	115		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	96.9		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	89.1		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	115		P	80 - 120
Endrin Ketone	93.7		P	80 - 120
Esfenvalerate	93.8		P	80 - 120
Ethalfluralin	90.0		P	80 - 120
Fenpropathrin	112		P	80 - 120
Gamma-BHC	86.3		P	80 - 120
Gamma-Chlordane	114		P	80 - 120
Heptachlor	99.9		P	80 - 120
Heptachlor Epoxide	108		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	94.9		P	80 - 120
Lambda-Cyhalothrin	91.1		P	80 - 120
Methoprene	103		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	96.5		P	80 - 120
Mirex	99.7		P	80 - 120
Oxychlordane	89.7		P	80 - 120
Permethrin	96.1		P	80 - 120
Phenothrin	92.8		P	80 - 120
Piperonyl Butoxide	90.2		P	80 - 120
Prallethrin	107		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	93.0		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	111		P	80 - 120
Trifluralin	93.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114271
Included Lab Sample IDs: 2348265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114271
Included Lab Sample IDs: 2348265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	100		P	80 - 120
Dechlorane Plus	99.8		P	80 - 120
Octinoxate	96.0		P	80 - 120
Oxybenzone	100		P	80 - 120
PBDE-47	97.4		P	80 - 120
PBDE-99	96.8		P	80 - 120
Tri-o-cresyl Phosphate	98.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114272
Included Lab Sample IDs: 2348266, 2348267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	98.9		P	80 - 120
Alpha-Chlordane	98.5		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	104		P	80 - 120
Bifenthrin	81.1		P	80 - 120
Chlorothalonil	110		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	98.4		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	98.6		P	80 - 120
DDT-p,p'	98.2		P	80 - 120
Delta-BHC	112		P	80 - 120
Deltamethrin	104		P	80 - 120
Dichlobenil	107		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	98.3		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	106		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfluralin	102		P	80 - 120
Fenpropathrin	107		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	109		P	80 - 120
Heptachlor Epoxide	106		P	80 - 120
Hexachlorobenzene	94.0		P	80 - 120
Kepone	110		P	80 - 120
Lambda-Cyhalothrin	107		P	80 - 120
Methoprene	98.7		P	80 - 120
Methoxychlor	93.4		P	80 - 120
MGK-264	103		P	80 - 120
Mirex	97.2		P	80 - 120
Oxychlordane	103		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114272
Included Lab Sample IDs: 2348266, 2348267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Permethrin	98.0		P	80 - 120
Phenothrin	97.7		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	81.6		P	80 - 120
Trans-Nonachlor	97.4		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	99.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114289
Included Lab Sample IDs: 2348265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	97.8		P	80 - 120
Ametryn	109		P	80 - 120
Atrazine	98.1		P	80 - 120
Atrazine Desethyl	95.1		P	80 - 120
Azinphos Methyl	107		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	98.8		P	80 - 120
Butylate	98.2		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	108		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	103		P	80 - 120
Cyanazine	89.3		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	99.8		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	97.2		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	98.4		P	80 - 120
Fenamiphos	105		P	80 - 120
Fenbuconazole	104		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114289
Included Lab Sample IDs: 2348265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fludioxonil	98.2		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	96.0		P	80 - 120
Imazalil	103		P	80 - 120
Iprodione	99.2		P	80 - 120
Loratadine	95.4		P	80 - 120
Malathion	97.8		P	80 - 120
Metalaxyl	99.3		P	80 - 120
Metolachlor	99.0		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	98.0		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	103		P	80 - 120
Napropamide	105		P	80 - 120
Norflurazon	98.2		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	99.9		P	80 - 120
Parathion Ethyl	98.9		P	80 - 120
Parathion Methyl	97.4		P	80 - 120
Pendimethalin	95.3		P	80 - 120
Phenytoin	102		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	105		P	80 - 120
Prometon	99.1		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	94.7		P	80 - 120
Propanil	92.8		P	80 - 120
Propargite	98.8		P	80 - 120
Propiconazole	100		P	80 - 120
Pyraflufen Ethyl	98.7		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.8		P	80 - 120
Simazine	101		P	80 - 120
Stirophos	107		P	80 - 120
Sulfentrazone	99.4		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	99.2		P	80 - 120
Triadimefon	102		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.1	121	126			4.62
	Acetochlor	90.4	82.3	101			20.4
	Alachlor	82.5	70.4	89.7			24.1
	Aldrin	54.3	56.3	55.7			1.00
	Aldrin	38.6	47.3	51.5			8.53
	Alpha-BHC	92.4	94.9	87.2			8.48
	Alpha-BHC	74.6	69.6	81.4			15.7
	Alpha-Chlordane	83.6	67.0	68.9			2.80
	Alpha-Chlordane	55.6	42.9	45.5			5.00
	Ametryn	93.7	67.9	66.2			1.12
	Atrazine	90.5					3.06
	Atrazine Desethyl	63.5	53.6	57.8			3.60
	Avobenzone	88.9	95.6	99.9			4.40
	Azinphos Methyl	98.1	87.3	96.3			9.80
	Azoxystrobin	97.1	93.8	116			14.7
	Beta-BHC	115	116	115			0.456
	Beta-BHC	95.4	99.7	110			9.44
	Beta-Cyfluthrin	107	71.9	80.0			10.7
	Beta-Cyfluthrin	45.1	61.4	58.6			4.65
	Bifenthrin	75.3	45.9	51.5			11.4
	Bifenthrin	45.6	75.9	60.2			23.0
	Bromacil	79.4	80.8	86.6			6.94
	Butylate	37.2	29.6	30.2			2.07
	Caffeine	83.4	98.5	98.3			0.242
	Carbophenothion	81.2	71.5	76.5			6.85
	Carfentrazone Ethyl	89.9	77.3	82.9			6.96
	Chlorfenapyr	85.8	67.8	74.3			9.15
	Chlorothalonil	133	92.5	91.8			0.738
	Chlorothalonil	104	166	190			13.2
	Chlorpyrifos Ethyl	88.8	98.0	99.4			1.42
	Chlorpyrifos Methyl	92.7	84.0	96.0			13.4
	Cis-Nonachlor	66.9	66.5	65.7			1.20
	Cis-Nonachlor	47.7	42.4	41.9			1.10
	Coumaphos	87.5	75.2	84.6			11.8
	Cyanazine	82.6	78.4	82.3			4.83
	Cypermethrin	111	70.3	78.4			10.8
	Cypermethrin	47.1	63.1	61.3			2.93
	Cyprodinil	85.1	76.2	85.9			12.0
	Dacthal	98.6	89.8	86.8			3.48
	Dacthal	72.1	62.4	67.2			7.47
	DDD-p,p'	82.3	67.0	61.9			7.91
	DDD-p,p'	56.3	44.2	43.2			2.31
	DDE-p,p'	78.5	70.6	70.0			0.844
	DDE-p,p'	54.4	39.3	40.2			1.96
	DDT-p,p'	70.3	69.0	73.3			6.04
	DDT-p,p'	59.9	56.7	59.5			4.55
	Dechlorane Plus	112	139	133			4.39
	Delta-BHC	130	125	127			1.65
	Delta-BHC	102	115	126			9.24
	Deltamethrin	116	67.7	94.0			32.5
	Deltamethrin	57.6	80.3	75.5			6.22
	Demeton	69.5	72.9	83.4			13.5

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Diazinon	84.5	77.4	92.3			17.5
	Dichlobenil	106	116	113			2.83
	Dichlobenil	64.2	42.1	41.3			2.08
	Dicofol	75.8	121	117			4.02
	Dicofol	72.0	105	90.5			14.7
	Dieldrin	88.5	75.9	74.7			1.61
	Dieldrin	60.7	47.1	46.9			0.407
	Difenoconazole	102	97.8	115			16.3
	Dimethenamid	70.5	68.9	81.6			16.9
	Dimethomorph	83.7	96.2	106			9.90
	Disulfoton	81.9	78.6	91.3			14.9
	Dithiopyr	92.5	61.3	73.6			13.7
	Endosulfan I	89.4	79.9	80.4			0.649
	Endosulfan I	68.6	59.4	60.8			2.34
	Endosulfan II	83.9	80.4	77.4			3.72
	Endosulfan II	59.3	45.2	43.4			4.02
	Endosulfan Sulfate	94.2	97.8	88.6			9.90
	Endosulfan Sulfate	68.5	49.5	50.3			1.59
	Endrin	79.4	77.7	75.0			3.49
	Endrin	59.5	50.8	49.6			2.50
	Endrin Aldehyde	74.4	84.4	78.5			7.28
	Endrin Aldehyde	63.9	40.2	36.5			9.74
	Endrin Ketone	87.1	92.0	90.1			2.11
	Endrin Ketone	73.7	81.2	76.7			5.64
	EPTC	33.9	28.7	24.8			14.4
	Esfenvalerate	100	73.4	81.9			11.0
	Esfenvalerate	42.9	67.5	64.3			4.98
	Ethalfluralin	72.8	78.8	82.3			4.32
	Ethalfluralin	61.6	64.0	68.8			7.17
	Ethion	91.8	73.6	70.4			4.40
	Ethoprop	72.6	79.1	91.2			14.2
	Etridiazole	38.7	37.5	37.5			0.0601
	Fenamiphos	86.6	70.7	72.2			2.10
	Fenbuconazole	89.1	74.7	83.0			10.5
	Fenpropathrin	108	67.4	70.8			4.90
	Fenpropathrin	46.7	50.1	49.6			1.18
	Fipronil	86.5	74.9	92.7			19.3
	Fipronil Desulfinyl	94.5	94.7	105			6.80
	Fipronil Sulfide	81.5	76.5	94.1			13.4
	Fipronil Sulfone	76.8					11.4
	Fluazifop-P-butyl	90.9	78.0	86.9			10.8
	Fludioxonil	81.1	72.2	89.5			21.4
	Flumioxazin	106	98.0	125			24.4
	Flutolanil	86.7	51.2	63.1			16.3
	Fluxapyroxad	80.1	72.0	83.5			10.6
	Fonofos	79.1	81.9	85.8			4.66
	Gamma-BHC	97.9	108	108			0.0724
	Gamma-BHC	83.4	94.0	110			15.7
	Gamma-Chlordane	84.2	69.6	70.6			1.41
	Gamma-Chlordane	53.1	51.6	53.0			2.66
	Heptachlor	68.6	66.7	66.3			0.562
	Heptachlor	53.4	54.2	58.0			6.73
	Heptachlor Epoxide	85.1	82.1	81.1			1.23
	Heptachlor Epoxide	64.0	58.5	59.4			1.51

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Hexachlorobenzene	72.7	69.2	69.8			0.826
	Hexachlorobenzene	58.7	63.6	69.8			9.37
	Hexazinone	84.4	90.0	100			10.9
	Imazalil	77.3	80.4	77.0			4.33
	Iprodione	85.2	70.8	80.1			12.3
	Kepone	65.6	157	157			0.0218
	Kepone	110	83.7	74.4			11.8
	Lambda-Cyhalothrin	87.6	60.0	68.6			13.3
	Lambda-Cyhalothrin	35.9	62.6	62.0			0.985
	Loratadine	80.4	91.6	102			10.4
	Malathion	98.1	91.5	103			12.1
	Metalaxyl	83.8	74.4	82.4			10.2
	Methoprene	71.8	54.5	59.3			8.36
	Methoprene	30.3	50.1	61.1			19.8
	Methoxychlor	87.6	79.6	87.9			9.90
	Methoxychlor	101	103	80.8			24.3
	Metolachlor	81.4	76.3	92.7			12.9
	Metribuzin	96.3	93.8	117			22.0
	Mevinphos	64.0	67.7	74.7			9.87
	MGK-264	96.5	85.5	83.7			2.12
	MGK-264	63.2	57.7	66.3			13.8
	Mirex	77.3	54.2	56.8			4.68
	Mirex	37.4	42.2	40.8			3.46
	Molinate	48.9	49.0	52.1			6.03
	Myclobutanil	87.2	92.4	114			11.1
	Naled	75.7	73.9	105			34.4
	Napropamide	76.7	63.3	73.8			15.3
	Norflurazon	77.8	65.1	78.1			18.1
	Octinoxate	91.3	103	110			6.95
	Oxadiazon	71.7					6.63
	Oxybenzone	82.7	107	106			1.29
	Oxychlordane	79.9	81.3	78.5			3.45
	Oxychlordane	63.6	68.8	64.1			7.12
	Oxyfluorfen	98.7	90.1	106			16.5
	Parathion Ethyl	90.6	87.9	101			13.9
	Parathion Methyl	98.7	96.2	115			17.8
	PBDE-47	91.9	108	114			5.50
	PBDE-99	95.6	106	111			5.21
	PCB-1016	76.4	90.3	86.2			4.69
	PCB-1016	91.3	80.4	68.9			15.4
	PCB-1260	74.7	92.3	86.7			6.32
	PCB-1260	91.2	78.7	69.6			12.3
	Pendimethalin	94.0	100	114			13.0
	Permethrin	98.0	69.3	77.4			11.1
	Permethrin	44.4	62.5	62.1			0.592
	Phenothrin	86.2	51.8	61.0			16.4
	Phenothrin	25.5	52.3	56.0			6.87
	Phenytoin	49.2	36.8	45.7			21.5
	Phorate	68.0	68.4	78.3			13.5
	Piperonyl Butoxide	131	92.2	95.2			3.27
	Piperonyl Butoxide	85.4	77.0	83.5			7.28
	Prallethrin	80.8	77.9	84.2			7.77
	Prallethrin	56.2	55.7	57.5			3.21
	Prodiamine	42.3	48.8	53.2			8.63

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Prometon	75.0	74.7	72.5			3.00
	Prometryn	81.6	73.1	77.4			5.77
	Pronamide	93.2	77.9	91.8			16.3
	Propanil	83.7	68.8	86.9			23.2
	Propargite	76.4	52.5	59.7			12.9
	Propiconazole	77.6	74.6	95.0			15.2
	Pyraflufen Ethyl	77.9	64.9	72.8			11.5
	Pyridaben	91.4	101	96.8			4.00
	Pyriproxyfen	81.9	61.4	76.5			21.8
	Simazine	84.2					0.368
	Stirophos	80.2	61.7	64.9			5.16
	Sulfentrazone	70.8	84.1	113			15.6
	Tau-Fluvalinate	91.8	62.9	70.7			11.6
	Tau-Fluvalinate	35.1	60.9	58.1			4.69
	Tebuconazole	65.7	49.6	54.6			8.02
	Terbufos	93.7	98.3	113			14.1
	Terbuthylazine	85.6	82.6	95.1			14.0
	Tetramethrin	106	69.7	77.1			10.0
	Tetramethrin	77.7	64.0	56.0			13.3
	Thiobencarb	80.6	67.9	79.3			15.5
	Trans-Nonachlor	71.3	67.4	66.7			1.04
	Trans-Nonachlor	51.8	47.3	48.0			1.34
	Tri-o-cresyl Phosphate	91.8	96.2	101			4.42
	Triadimefon	85.3	67.3	77.9			14.6
	Triclosan Methyl	91.7	79.8	77.1			3.43
	Triclosan Methyl	62.6	50.2	51.3			2.23
	Trifluralin	77.4	73.7	78.7			6.54
	Trifluralin	62.5	63.5	66.7			4.86
EPA 8276	Chlordane	97.1	104	97.4			7.01
	Chlordane	94.3	82.5	67.8			19.6
	Toxaphene	101	112	105			5.98
	Toxaphene	90.9	89.5	77.1			14.9
EPA 8321B	2,4-D	119	93.9	115			20.4
	2,4,5-T	99.8	87.1	103			16.5
	3-Hydroxycarbofuran	91.7	98.5	96.1			2.49
	Acesulfame K	99.5	95.7	92.2			3.75
	Acetaminophen	91.4	87.0	88.4			1.60
	Acetamiprid	95.5	87.6	88.9			1.57
	Afidopyropen	73.4	82.9	74.1			11.2
	Aldicarb	55.0	46.1	48.2			4.52
	Aldicarb Sulfone	110	112	120			6.95
	Aldicarb Sulfoxide	110	56.9	60.0			5.20
	AMPA	101	79.7	82.1			2.43
	Bentazon	99.2	81.5	80.3			1.55
	Benzovindiflupyr	108	103	104			1.15
	Carbamazepine	108	112	115			2.63
	Carbaryl	101	89.1	72.2			21.0
	Carbofuran	95.8	72.7	70.9			2.50
	Clothianidin	102	114	123			7.87
	Dinotefuran	108	126	131			3.63
	Diuron	77.5	87.4	92.4			5.54
	Endothall	107	96.5	103			6.38
	Fenuron	104	99.2	98.4			0.820
	Fluridone	106	96.4	117			19.1

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Glufosinate	101	101	97.9			2.79
	Glyphosate	105	75.9	80.5			4.12
	Hydrocodone	103	108	121			10.9
	Ibuprofen	119	70.2	92.7			27.7
	Imazapyr	110	109	126			14.0
	Imidacloprid	100	131	132			1.39
	Linuron	97.7	136	92.0			38.4
	Mandestrobin	107	100	104			3.60
	MCPP	111	95.0	113			17.1
	Methiocarb	117	94.9	107			12.1
	Methomyl	99.7	86.5	91.2			5.26
	Naproxen	84.4	85.0	82.8			2.61
	Oxamyl	113	102	108			5.34
	Primidone	100	99.1	99.4			0.312
	Propoxur	83.4	69.1	69.2			0.229
	Pyraclostrobin	100	97.7	104			6.64
	Silvex	111	90.4	111			20.9
	Sucralose	102	99.9	95.9			1.98
	Thiamethoxam	114	137	140			2.01
	Tolfenpyrad	86.7	62.5	59.2			5.46
	Triclopyr	96.0	83.1	96.9			15.3

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2348265
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2348264, 2348266, 2348267
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2348265
EPA 8270E	PCBs in water matrices by GC/MS/MS	2348264, 2348266, 2348267
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2348264, 2348266
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2348262
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2348263

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 03:12	Julie Wi	2348264
	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 22:37	Vandana T. Nagar	2348264
	08/11/2022	08/16/2022 08:00	Fe-Val Siddell	08/19/2022 00:06	Julie Wi	2348266
	08/11/2022	08/16/2022 08:00	Fe-Val Siddell	08/19/2022 00:37	Julie Wi	2348267
	08/11/2022	08/16/2022 08:00	Fe-Val Siddell	08/19/2022 17:06	Vandana T. Nagar	2348266
	08/11/2022	08/16/2022 08:00	Fe-Val Siddell	08/19/2022 17:36	Vandana T. Nagar	2348267
	08/11/2022	08/16/2022 08:00	Fe-Val Siddell	08/22/2022 18:21	Vandana T. Nagar	2348266
	08/11/2022	08/16/2022 08:00	Fe-Val Siddell	08/22/2022 18:50	Vandana T. Nagar	2348267
	08/11/2022	08/17/2022 08:30	Rasheda Ghaffari	08/22/2022 20:15	Lipi Saha	2348265
	08/11/2022	08/17/2022 08:30	Rasheda Ghaffari	08/23/2022 19:20	Michael Poppell	2348265
EPA 8276	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 15:12	Arthur Maknenko	2348264
	08/11/2022	08/16/2022 08:00	Fe-Val Siddell	08/19/2022 10:33	Arthur Maknenko	2348266
EPA 8321B	08/11/2022	08/12/2022 11:00	June Rhew	08/13/2022 01:29	Umesh Chiluwal	2348263
	08/11/2022	08/12/2022 11:00	June Rhew	08/13/2022 19:07	Umesh Chiluwal	2348263
	08/11/2022	08/15/2022 09:00	Hoor Shaik	08/16/2022 07:28	Juyoung Kim	2348263
	08/11/2022	08/15/2022 09:00	Hoor Shaik	08/16/2022 11:41	Juyoung Kim	2348263
	08/11/2022	08/15/2022 09:30	June Rhew	08/15/2022 23:09	Juyoung Kim	2348262