

Chemical Analysis Report

NW-DIST-2023-06-29-02

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

Event Description: **East Bay Seagrass Complaint**
Request ID: **RQ-2023-06-19-38**
Customer: **NW-DIST**
Project ID: **SPPROJECTS**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

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Certified by: Colin Wright, Program Administrator

Date Certified: 20-JUL-2023 14:37

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Piney Point Grass Bed

Collection Date/Time: 06/28/2023 14:00

Field ID: G3NW0246

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420524	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P431948	
2420529	EPA 8321B	Aldicarb	0.020	U	ug/L	P431979	
		Aldicarb Sulfone	0.0020	U	ug/L	P431979	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P431979	MS
		Carbaryl	0.0020	U	ug/L	P431979	
		Carbofuran	0.0020	U	ug/L	P431979	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P431979	
		Methiocarb	0.0020	U	ug/L	P431979	
		Methomyl	0.0020	U	ug/L	P431979	
		Oxamyl	0.0020	U	ug/L	P431979	
		Propoxur	0.0020	U	ug/L	P431979	
2420533		Acesulfame K	0.10	U	ug/L	P431925	
		2,4-D	0.0031	I	ug/L	P431897	
		2,4,5-T	0.0040	U	ug/L	P431897	
		AMPA	10	UJ	ug/L	P431925	CCV
		Acetaminophen	0.0080	U	ug/L	P431897	
		Endothall	0.25	U	ug/L	P431925	
		Acetamiprid	0.0020	U	ug/L	P431897	
		Glufosinate	10	U	ug/L	P431925	
		Glyphosate	10	U	ug/L	P431925	
		Afidopyropen	0.0020	U	ug/L	P431897	
		Sucralose	0.20		ug/L	P431925	
		Bentazon	8.0E-04	U	ug/L	P431897	
		Benzovindiflupyr	0.0020	U	ug/L	P431897	
		Carbamazepine	8.0E-04	U	ug/L	P431897	
		Clothianidin	0.0020	U	ug/L	P431897	
		Dinotefuran	0.0020	U	ug/L	P431897	
		Diuron	0.0020	U	ug/L	P431897	MS, RPD
		Fenuron	0.032	U	ug/L	P431897	
		Fluridone	8.0E-04	U	ug/L	P431897	
		Imazapyr	0.016		ug/L	P431897	
		Hydrocodone	0.0020	U	ug/L	P431897	
		Ibuprofen	0.080	U	ug/L	P431897	
		Imidacloprid	0.0020	U	ug/L	P431897	
		Linuron	0.0040	U	ug/L	P431897	
		Mandestrobin	0.0020	U	ug/L	P431897	
		MCP	0.0020	U	ug/L	P431897	
		Naproxen	0.0080	U	ug/L	P431897	
		Primidone	0.0040	U	ug/L	P431897	
		Pyraclostrobin	0.0020	U	ug/L	P431897	
		Silvex	0.0040	U	ug/L	P431897	
		Thiamethoxam	0.0020	U	ug/L	P431897	
		Tolfenpyrad	0.0020	U	ug/L	P431897	
		Triclopyr	0.0040	U	ug/L	P431897	

Field ID: G3NW0246

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420539	EPA 8270E	Aldrin	0.70	U	ng/L	P432133	
		Alpha-BHC	0.11	U	ng/L	P432133	
		Alpha-Chlordane	0.21	U	ng/L	P432133	
		Beta-BHC	0.21	I	ng/L	P432133	
		Beta-Cyfluthrin	1.3	U	ng/L	P432133	
		Bifenthrin	0.54	U	ng/L	P432133	
		Chlorothalonil	3.9	U	ng/L	P432133	
		Cis-Nonachlor	0.21	U	ng/L	P432133	
		Cypermethrin	1.6	U	ng/L	P432133	
		Dacthal	0.16	U	ng/L	P432133	
		DDD-p,p'	0.27	U	ng/L	P432133	
		DDE-p,p'	0.21	U	ng/L	P432133	
		DDT-p,p'	0.91	I	ng/L	P432133	
		Delta-BHC	0.43	U	ng/L	P432133	
		Deltamethrin	1.3	U	ng/L	P432133	
		Dichlobenil	0.27	U	ng/L	P432133	
		Dicofol	1.3	U	ng/L	P432133	
		Dieldrin	0.43	U	ng/L	P432133	
		Endosulfan I	0.43	U	ng/L	P432133	
		Endosulfan II	0.97	U	ng/L	P432133	
		Endosulfan Sulfate	0.32	U	ng/L	P432133	
		Endrin	0.97	U	ng/L	P432133	
		Endrin Aldehyde	0.80	U	ng/L	P432133	
		Endrin Ketone	0.43	U	ng/L	P432133	
		Esfenvalerate	0.80	U	ng/L	P432133	
		Ethalfuralin	0.16	U	ng/L	P432133	
		Fenpropathrin	0.27	U	ng/L	P432133	
		Gamma-BHC	0.13	U	ng/L	P432133	
		Gamma-Chlordane	0.27	I	ng/L	P432133	
		Heptachlor	0.21	U	ng/L	P432133	
		Heptachlor Epoxide	0.27	U	ng/L	P432133	
		Hexachlorobenzene**	1.1	U	ng/L	P432133	
		Kepone	14	UJ	ng/L	P432133	CCV
		Lambda-Cyhalothrin	0.80	U	ng/L	P432133	
		Methoprene	0.80	U	ng/L	P432133	
		Methoxychlor	0.32	U	ng/L	P432133	
		MGK-264	0.21	U	ng/L	P432133	
		Mirex	0.38	U	ng/L	P432133	
		Oxychlordane	0.32	U	ng/L	P432133	
		Permethrin	1.7	U	ng/L	P432133	
		Phenothrin	0.97	U	ng/L	P432133	
		Piperonyl Butoxide	0.31	I	ng/L	P432133	
		Prallethrin	2.1	U	ng/L	P432133	
		Tau-Fluvalinate	0.27	U	ng/L	P432133	
		Tetramethrin	0.80	U	ng/L	P432133	

Field ID: G3NW0246

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420539	EPA 8270E	Trans-Nonachlor	0.21	U	ng/L	P432133	
		Triclosan Methyl	0.16	U	ng/L	P432133	
		Trifluralin	0.21	U	ng/L	P432133	
		Chlordane	2.1	UJ	ng/L	P432133	LCS
		Toxaphene	16	U	ng/L	P432133	MS
2420543	EPA 8270E	Acetochlor	0.21	U	ng/L	P431788	MS
		Alachlor	0.41	U	ng/L	P431788	
		Ametryn	1.1	U	ng/L	P431788	
		Atrazine	6.5		ng/L	P431788	MS
		Atrazine Desethyl	2.4	I	ng/L	P431788	
		Azinphos Methyl	3.1	U	ng/L	P431788	
		Azoxystrobin	0.41	U	ng/L	P431788	RPD
		Bromacil	0.62	U	ng/L	P431788	
		Butylate	0.21	U	ng/L	P431788	
		Caffeine**	17	I	ng/L	P431788	
		Carbophenothion	0.52	U	ng/L	P431788	RPD
		Carfentrazone Ethyl	0.15	U	ng/L	P431788	RPD
		Chlorfenapyr	0.31	U	ng/L	P431788	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431788	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P431788	MS
		Coumaphos	1.1	U	ng/L	P431788	RPD
		Cyanazine	5.2	U	ng/L	P431788	
		Cyprodinil	0.21	U	ng/L	P431788	
		Demeton	3.6	U	ng/L	P431788	
		Diazinon	0.13	U	ng/L	P431788	
		Difenoconazole	0.62	U	ng/L	P431788	RPD
		Dimethenamid	0.10	U	ng/L	P431788	
		Dimethomorph	0.31	U	ng/L	P431788	
		Disulfoton	0.62	U	ng/L	P431788	
		Dithiopyr	1.0	U	ng/L	P431788	
		EPTC	0.52	U	ng/L	P431788	RPD
		Ethion	0.31	U	ng/L	P431788	
		Ethoprop	0.13	U	ng/L	P431788	MS, RPD
		Etridiazole	0.10	U	ng/L	P431788	RPD
		Fenamiphos	0.46	U	ng/L	P431788	
		Fenbuconazole	0.52	U	ng/L	P431788	MS
		Fipronil	0.21	U	ng/L	P431788	
		Fipronil Desulfinyl**	0.11	I	ng/L	P431788	
		Fipronil Sulfide	0.10	U	ng/L	P431788	
		Fipronil Sulfone	0.10	U	ng/L	P431788	
		Fluazifop-P-butyl	0.10	U	ng/L	P431788	
		Fludioxonil	0.10	U	ng/L	P431788	MS
		Flumioxazin	3.1	U	ng/L	P431788	
		Flutolanil	0.10	U	ng/L	P431788	
		Fluxapyroxad	0.26	U	ng/L	P431788	

Field ID: G3NW0246

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420543	EPA 8270E	Fonofos	0.15	U	ng/L	P431788	
		Hexazinone	0.52	U	ng/L	P431788	MS, RPD
		Imazalil	0.67	U	ng/L	P431788	
		Iprodione	0.52	UJ	ng/L	P431788	CCV
		Loratadine**	0.31	U	ng/L	P431788	RPD
		Malathion	0.36	U	ng/L	P431788	MS
		Metalaxyl	0.52	U	ng/L	P431788	MS
		Metolachlor	0.77	U	ng/L	P431788	RPD
		Metribuzin	0.41	U	ng/L	P431788	RPD
		Mevinphos	1.0	U	ng/L	P431788	RPD
		Molinate	0.26	U	ng/L	P431788	MS
		Myclobutanil	0.36	U	ng/L	P431788	RPD
		Naled	2.6	U	ng/L	P431788	RPD
		Napropamide	0.72	U	ng/L	P431788	
		Norflurazon	1.0	U	ng/L	P431788	RPD
		Oxadiazon	0.36	U	ng/L	P431788	
		Oxyfluorfen	0.21	U	ng/L	P431788	
		Parathion Ethyl	0.15	U	ng/L	P431788	MS, RPD
		Parathion Methyl	0.21	U	ng/L	P431788	MS
		Pendimethalin	0.77	U	ng/L	P431788	
		Phenytol**	5.5	U	ng/L	P431788	
		Phorate	0.26	U	ng/L	P431788	
		Prodiamine	0.21	U	ng/L	P431788	MS
		Prometon	3.1	U	ng/L	P431788	MS
		Prometryn	0.36	U	ng/L	P431788	
		Pronamide	0.10	U	ng/L	P431788	
		Propanil	0.10	U	ng/L	P431788	
		Propargite	0.82	U	ng/L	P431788	
		Propiconazole	0.62	U	ng/L	P431788	
		Pyraflufen Ethyl	0.31	U	ng/L	P431788	
		Pyridaben	1.4	U	ng/L	P431788	
		Pyriproxyfen	0.26	U	ng/L	P431788	
		Simazine	3.8		ng/L	P431788	RPD
		Stiophos	0.41	U	ng/L	P431788	
		Sulfentrazone	1.4	U	ng/L	P431788	
		Tebuconazole	1.4	U	ng/L	P431788	
		Terbufos	0.21	U	ng/L	P431788	
		Terbuthylazine	0.21	U	ng/L	P431788	
		Thiobencarb	0.52	U	ng/L	P431788	
		Triadimefon	0.15	U	ng/L	P431788	

Ref. Method and Comment:

EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: California Bayou Grass Bed

Collection Date/Time: 06/28/2023 14:35

Field ID: G3NW0249

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420525	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P431948	
2420530	EPA 8321B	Aldicarb	0.020	U	ug/L	P431979	
		Aldicarb Sulfone	0.0020	U	ug/L	P431979	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P431979	MS
		Carbaryl	0.0020	U	ug/L	P431979	
		Carbofuran	0.0020	U	ug/L	P431979	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P431979	
		Methiocarb	0.0020	U	ug/L	P431979	
		Methomyl	0.0020	U	ug/L	P431979	
		Oxamyl	0.0020	U	ug/L	P431979	
		Propoxur	0.0020	U	ug/L	P431979	
2420534		Acesulfame K	0.10	U	ug/L	P431925	
		2,4-D	0.0029	I	ug/L	P431897	
		AMPA	1.0	U	ug/L	P431925	
		2,4,5-T	0.0040	U	ug/L	P431897	
		Acetaminophen	0.0080	U	ug/L	P431897	
		Endothall	0.25	U	ug/L	P431925	
		Acetamiprid	0.0020	U	ug/L	P431897	
		Glufosinate	1.0	U	ug/L	P431925	
		Glyphosate	1.0	U	ug/L	P431925	
		Afidopyropen	0.0020	U	ug/L	P431897	
		Sucralose	0.22		ug/L	P431925	
		Bentazon	8.0E-04	U	ug/L	P431897	
		Benzovindiflupyr	0.0020	U	ug/L	P431897	
		Carbamazepine	8.0E-04	U	ug/L	P431897	
		Clothianidin	0.0020	U	ug/L	P431897	
		Dinotefuran	0.0020	U	ug/L	P431897	
		Diuron	0.0020	U	ug/L	P431897	MS, RPD
		Fenuron	0.032	U	ug/L	P431897	
		Fluridone	8.0E-04	U	ug/L	P431897	
		Imazapyr	0.024		ug/L	P431897	
		Hydrocodone	0.0020	U	ug/L	P431897	
		Ibuprofen	0.080	U	ug/L	P431897	
		Imidacloprid	0.0020	U	ug/L	P431897	
		Linuron	0.0040	U	ug/L	P431897	
		Mandestrobin	0.0020	U	ug/L	P431897	
		MCPP	0.0020	U	ug/L	P431897	
		Naproxen	0.0080	U	ug/L	P431897	
		Primidone	0.0040	U	ug/L	P431897	
		Pyraclostrobin	0.0020	U	ug/L	P431897	
		Silvex	0.0040	U	ug/L	P431897	
		Thiamethoxam	0.0020	U	ug/L	P431897	
		Tolfenpyrad	0.0020	U	ug/L	P431897	
		Triclopyr	0.0040	U	ug/L	P431897	

Field ID: G3NW0249

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420540	EPA 8270E	Aldrin	0.76	U	ng/L	P432133	
		Alpha-BHC	0.12	U	ng/L	P432133	
		Alpha-Chlordane	0.23	U	ng/L	P432133	
		Beta-BHC	0.12	U	ng/L	P432133	
		Beta-Cyfluthrin	1.5	U	ng/L	P432133	
		Bifenthrin	0.58	U	ng/L	P432133	
		Chlorothalonil	4.2	U	ng/L	P432133	
		Cis-Nonachlor	0.23	U	ng/L	P432133	
		Cypermethrin	1.8	U	ng/L	P432133	
		Dacthal	0.18	U	ng/L	P432133	
		DDD-p,p'	0.29	U	ng/L	P432133	
		DDE-p,p'	0.23	U	ng/L	P432133	
		DDT-p,p'	1.2	I	ng/L	P432133	
		Delta-BHC	0.47	U	ng/L	P432133	
		Deltamethrin	1.5	U	ng/L	P432133	
		Dichlobenil	0.29	U	ng/L	P432133	
		Dicofol	1.5	U	ng/L	P432133	
		Dieldrin	0.47	U	ng/L	P432133	
		Endosulfan I	0.47	U	ng/L	P432133	
		Endosulfan II	1.1	U	ng/L	P432133	
		Endosulfan Sulfate	0.35	U	ng/L	P432133	
		Endrin	1.1	U	ng/L	P432133	
		Endrin Aldehyde	0.88	U	ng/L	P432133	
		Endrin Ketone	0.47	U	ng/L	P432133	
		Esfenvalerate	0.88	U	ng/L	P432133	
		Ethalfuralin	0.18	U	ng/L	P432133	
		Fenpropathrin	0.29	U	ng/L	P432133	
		Gamma-BHC	0.15	U	ng/L	P432133	
		Gamma-Chlordane	0.28	I	ng/L	P432133	
		Heptachlor	0.23	U	ng/L	P432133	
		Heptachlor Epoxide	0.29	U	ng/L	P432133	
		Hexachlorobenzene**	1.2	U	ng/L	P432133	
		Kepone	16	UJ	ng/L	P432133	CCV
		Lambda-Cyhalothrin	0.88	U	ng/L	P432133	
		Methoprene	0.88	U	ng/L	P432133	
		Methoxychlor	0.35	U	ng/L	P432133	
		MGK-264	0.23	U	ng/L	P432133	
		Mirex	0.41	U	ng/L	P432133	
		Oxychlordane	0.35	U	ng/L	P432133	
		Permethrin	1.9	U	ng/L	P432133	
		Phenothrin	1.1	U	ng/L	P432133	
		Piperonyl Butoxide	0.72	I	ng/L	P432133	
		Prallethrin	2.3	U	ng/L	P432133	
		Tau-Fluvalinate	0.29	U	ng/L	P432133	
		Tetramethrin	0.88	U	ng/L	P432133	

Field ID: G3NW0249

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420540	EPA 8270E	Trans-Nonachlor	0.23	U	ng/L	P432133	
		Triclosan Methyl	0.18	U	ng/L	P432133	
		Trifluralin	0.23	U	ng/L	P432133	
		Chlordane	2.3	UJ	ng/L	P432133	LCS
		Toxaphene	18	U	ng/L	P432133	MS
2420544	EPA 8270E	Acetochlor	0.23	U	ng/L	P431788	MS
		Alachlor	0.47	U	ng/L	P431788	
		Ametryn	1.3	U	ng/L	P431788	
		Atrazine	5.8		ng/L	P431788	MS
		Atrazine Desethyl	2.8	I	ng/L	P431788	
		Azinphos Methyl	3.5	U	ng/L	P431788	
		Azoxystrobin	0.47	U	ng/L	P431788	RPD
		Bromacil	0.70	U	ng/L	P431788	
		Butylate	0.23	U	ng/L	P431788	
		Caffeine**	61		ng/L	P431788	
		Carbophenothion	0.58	U	ng/L	P431788	RPD
		Carfentrazone Ethyl	0.18	U	ng/L	P431788	RPD
		Chlorfenapyr	0.35	U	ng/L	P431788	
		Chlorpyrifos Ethyl	0.35	U	ng/L	P431788	RPD
		Chlorpyrifos Methyl	0.12	U	ng/L	P431788	MS
		Coumaphos	1.2	U	ng/L	P431788	RPD
		Cyanazine	5.8	U	ng/L	P431788	
		Cyprodinil	0.23	U	ng/L	P431788	
		Demeton	4.1	U	ng/L	P431788	
		Diazinon	0.15	U	ng/L	P431788	
		Difenoconazole	0.70	U	ng/L	P431788	RPD
		Dimethenamid	0.12	U	ng/L	P431788	
		Dimethomorph	0.35	U	ng/L	P431788	
		Disulfoton	0.70	U	ng/L	P431788	
		Dithiopyr	1.2	U	ng/L	P431788	
		EPTC	0.58	U	ng/L	P431788	RPD
		Ethion	0.35	U	ng/L	P431788	
		Ethoprop	0.15	U	ng/L	P431788	MS, RPD
		Etridiazole	0.12	U	ng/L	P431788	RPD
		Fenamiphos	0.53	U	ng/L	P431788	
		Fenbuconazole	0.58	U	ng/L	P431788	MS
		Fipronil	0.23	U	ng/L	P431788	
		Fipronil Desulfinyl**	0.12	U	ng/L	P431788	
		Fipronil Sulfide	0.12	U	ng/L	P431788	
		Fipronil Sulfone	0.12	U	ng/L	P431788	
		Fluazifop-P-butyl	0.12	U	ng/L	P431788	
		Fludioxonil	0.12	U	ng/L	P431788	MS
		Flumioxazin	3.5	U	ng/L	P431788	
		Flutolanil	0.12	U	ng/L	P431788	
		Fluxapyroxad	0.29	U	ng/L	P431788	

Field ID: G3NW0249

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420544	EPA 8270E	Fonofos	0.18	U	ng/L	P431788	
		Hexazinone	0.58	U	ng/L	P431788	MS, RPD
		Imazalil	0.76	U	ng/L	P431788	
		Iprodione	0.58	UJ	ng/L	P431788	CCV
		Loratadine**	0.35	U	ng/L	P431788	RPD
		Malathion	0.41	U	ng/L	P431788	MS
		Metalaxyl	0.58	U	ng/L	P431788	MS
		Metolachlor	0.88	U	ng/L	P431788	RPD
		Metribuzin	0.47	U	ng/L	P431788	RPD
		Mevinphos	1.2	U	ng/L	P431788	RPD
		Molinate	0.29	U	ng/L	P431788	MS
		Myclobutanil	0.41	U	ng/L	P431788	RPD
		Naled	2.9	U	ng/L	P431788	RPD
		Napropamide	0.82	U	ng/L	P431788	
		Norflurazon	1.2	U	ng/L	P431788	RPD
		Oxadiazon	0.41	U	ng/L	P431788	
		Oxyfluorfen	0.23	U	ng/L	P431788	
		Parathion Ethyl	0.18	U	ng/L	P431788	MS, RPD
		Parathion Methyl	0.23	U	ng/L	P431788	MS
		Pendimethalin	0.88	U	ng/L	P431788	
		Phenytol**	6.2	U	ng/L	P431788	
		Phorate	0.29	U	ng/L	P431788	
		Prodiamine	0.24	I	ng/L	P431788	MS
		Prometon	3.5	U	ng/L	P431788	MS
		Prometryn	0.41	U	ng/L	P431788	
		Pronamide	0.12	U	ng/L	P431788	
		Propanil	0.12	U	ng/L	P431788	
		Propargite	0.93	U	ng/L	P431788	
		Propiconazole	0.70	U	ng/L	P431788	
		Pyraflufen Ethyl	0.35	U	ng/L	P431788	
		Pyridaben	1.6	U	ng/L	P431788	
		Pyriproxyfen	0.29	U	ng/L	P431788	
		Simazine	3.1		ng/L	P431788	RPD
		Stiophos	0.47	U	ng/L	P431788	
		Sulfentrazone	1.6	U	ng/L	P431788	
		Tebuconazole	1.6	U	ng/L	P431788	
		Terbufos	0.23	U	ng/L	P431788	
		Terbuthylazine	0.23	U	ng/L	P431788	
		Thiobencarb	0.58	U	ng/L	P431788	
		Triadimefon	0.18	U	ng/L	P431788	

Ref. Method and Comment:

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

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

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Richardson Bayou Grass Bed

Collection Date/Time: 06/28/2023 15:10

Field ID: G3NW0248

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420526	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P431948	
2420531	EPA 8321B	Aldicarb	0.020	U	ug/L	P431979	
		Aldicarb Sulfone	0.0020	U	ug/L	P431979	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P431979	MS
		Carbaryl	0.0020	U	ug/L	P431979	
		Carbofuran	0.0020	U	ug/L	P431979	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P431979	
		Methiocarb	0.0020	U	ug/L	P431979	
		Methomyl	0.0020	U	ug/L	P431979	
		Oxamyl	0.0020	U	ug/L	P431979	
		Propoxur	0.0020	U	ug/L	P431979	
2420535		Acesulfame K	0.10	U	ug/L	P431925	
		2,4-D	0.0036	I	ug/L	P431897	
		AMPA	1.0	U	ug/L	P431925	
		2,4,5-T	0.0040	U	ug/L	P431897	
		Acetaminophen	0.0080	U	ug/L	P431897	
		Endothall	0.25	U	ug/L	P431925	
		Acetamiprid	0.0020	U	ug/L	P431897	
		Glufosinate	1.0	U	ug/L	P431925	
		Glyphosate	1.0	U	ug/L	P431925	
		Afidopyropen	0.0020	U	ug/L	P431897	
		Sucralose	0.27		ug/L	P431925	
		Bentazon	8.0E-04	U	ug/L	P431897	
		Benzovindiflupyr	0.0020	U	ug/L	P431897	
		Carbamazepine	8.0E-04	U	ug/L	P431897	
		Clothianidin	0.0020	U	ug/L	P431897	
		Dinotefuran	0.0020	U	ug/L	P431897	
		Diuron	0.0020	U	ug/L	P431897	MS, RPD
		Fenuron	0.032	U	ug/L	P431897	
		Fluridone	8.0E-04	U	ug/L	P431897	
		Imazapyr	0.026		ug/L	P431897	
		Hydrocodone	0.0020	U	ug/L	P431897	
		Ibuprofen	0.080	U	ug/L	P431897	
		Imidacloprid	0.0020	U	ug/L	P431897	
		Linuron	0.0040	U	ug/L	P431897	
		Mandestrobin	0.0020	U	ug/L	P431897	
		MCPP	0.0020	U	ug/L	P431897	
		Naproxen	0.0080	U	ug/L	P431897	
		Primidone	0.0040	U	ug/L	P431897	
		Pyraclostrobin	0.0020	U	ug/L	P431897	
		Silvex	0.0040	U	ug/L	P431897	
		Thiamethoxam	0.0020	U	ug/L	P431897	
		Tolfenpyrad	0.0020	U	ug/L	P431897	
		Triclopyr	0.0040	U	ug/L	P431897	

Field ID: G3NW0248

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420541	EPA 8270E	Aldrin	0.74	U	ng/L	P432133	
		Alpha-BHC	0.11	U	ng/L	P432133	
		Alpha-Chlordane	0.23	U	ng/L	P432133	
		Beta-BHC	0.20	I	ng/L	P432133	
		Beta-Cyfluthrin	1.4	U	ng/L	P432133	
		Bifenthrin	0.57	U	ng/L	P432133	
		Chlorothalonil	4.1	U	ng/L	P432133	
		Cis-Nonachlor	0.23	U	ng/L	P432133	
		Cypermethrin	1.7	U	ng/L	P432133	
		Dacthal	0.17	U	ng/L	P432133	
		DDD-p,p'	0.28	U	ng/L	P432133	
		DDE-p,p'	0.23	U	ng/L	P432133	
		DDT-p,p'	1.0	I	ng/L	P432133	
		Delta-BHC	0.45	U	ng/L	P432133	
		Deltamethrin	1.4	U	ng/L	P432133	
		Dichlobenil	0.28	U	ng/L	P432133	
		Dicofol	1.4	U	ng/L	P432133	
		Dieldrin	0.45	U	ng/L	P432133	
		Endosulfan I	0.45	U	ng/L	P432133	
		Endosulfan II	1.0	U	ng/L	P432133	
		Endosulfan Sulfate	0.34	U	ng/L	P432133	
		Endrin	1.0	U	ng/L	P432133	
		Endrin Aldehyde	0.85	U	ng/L	P432133	
		Endrin Ketone	0.45	U	ng/L	P432133	
		Esfenvalerate	0.85	U	ng/L	P432133	
		Ethalfuralin	0.17	U	ng/L	P432133	
		Fenpropathrin	0.28	U	ng/L	P432133	
		Gamma-BHC	0.14	U	ng/L	P432133	
		Gamma-Chlordane	0.26	I	ng/L	P432133	
		Heptachlor	0.23	U	ng/L	P432133	
		Heptachlor Epoxide	0.28	U	ng/L	P432133	
		Hexachlorobenzene**	1.1	U	ng/L	P432133	
		Kepone	15	UJ	ng/L	P432133	CCV
		Lambda-Cyhalothrin	0.85	U	ng/L	P432133	
		Methoprene	0.85	U	ng/L	P432133	
		Methoxychlor	0.34	U	ng/L	P432133	
		MGK-264	0.23	U	ng/L	P432133	
		Mirex	0.40	U	ng/L	P432133	
		Oxychlordane	0.34	U	ng/L	P432133	
		Permethrin	1.8	U	ng/L	P432133	
		Phenothrin	1.0	U	ng/L	P432133	
		Piperonyl Butoxide	0.22	I	ng/L	P432133	
		Prallethrin	2.3	U	ng/L	P432133	
		Tau-Fluvalinate	0.28	U	ng/L	P432133	
		Tetramethrin	0.85	U	ng/L	P432133	

Field ID: G3NW0248

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420541	EPA 8270E	Trans-Nonachlor	0.23	U	ng/L	P432133	
		Triclosan Methyl	0.17	U	ng/L	P432133	
		Trifluralin	0.23	U	ng/L	P432133	
		Chlordane	2.3	UJ	ng/L	P432133	LCS
		Toxaphene	17	U	ng/L	P432133	MS
2420545	EPA 8270E	Acetochlor	0.20	U	ng/L	P431788	MS
		Alachlor	0.41	U	ng/L	P431788	
		Ametryn	1.1	U	ng/L	P431788	
		Atrazine	7.5		ng/L	P431788	MS
		Atrazine Desethyl	3.1	I	ng/L	P431788	
		Azinphos Methyl	3.1	U	ng/L	P431788	
		Azoxystrobin	0.41	U	ng/L	P431788	RPD
		Bromacil	0.61	U	ng/L	P431788	
		Butylate	0.20	U	ng/L	P431788	
		Caffeine**	60		ng/L	P431788	
		Carbophenothion	0.51	U	ng/L	P431788	RPD
		Carfentrazone Ethyl	0.15	U	ng/L	P431788	RPD
		Chlorfenapyr	0.31	U	ng/L	P431788	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431788	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P431788	MS
		Coumaphos	1.1	U	ng/L	P431788	RPD
		Cyanazine	5.1	U	ng/L	P431788	
		Cyprodinil	0.20	U	ng/L	P431788	
		Demeton	3.6	U	ng/L	P431788	
		Diazinon	0.13	U	ng/L	P431788	
		Difenoconazole	0.61	U	ng/L	P431788	RPD
		Dimethenamid	0.10	U	ng/L	P431788	
		Dimethomorph	0.31	U	ng/L	P431788	
		Disulfoton	0.61	U	ng/L	P431788	
		Dithiopyr	1.0	U	ng/L	P431788	
		EPTC	0.51	U	ng/L	P431788	RPD
		Ethion	0.31	U	ng/L	P431788	
		Ethoprop	0.13	U	ng/L	P431788	MS, RPD
		Etridiazole	0.10	U	ng/L	P431788	RPD
		Fenamiphos	0.46	U	ng/L	P431788	
		Fenbuconazole	0.51	U	ng/L	P431788	MS
		Fipronil	0.22	I	ng/L	P431788	
		Fipronil Desulfinyl**	0.27	I	ng/L	P431788	
		Fipronil Sulfide	0.11	I	ng/L	P431788	
		Fipronil Sulfone	0.14	I	ng/L	P431788	
		Fluazifop-P-butyl	0.10	U	ng/L	P431788	
		Fludioxonil	0.10	U	ng/L	P431788	MS
		Flumioxazin	3.1	U	ng/L	P431788	
		Flutolanil	0.10	U	ng/L	P431788	
		Fluxapyroxad	0.26	U	ng/L	P431788	

Field ID: G3NW0248

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420545	EPA 8270E	Fonofos	0.15	U	ng/L	P431788	
		Hexazinone	0.51	U	ng/L	P431788	MS, RPD
		Imazalil	0.67	U	ng/L	P431788	
		Iprodione	0.51	UJ	ng/L	P431788	CCV
		Loratadine**	0.31	U	ng/L	P431788	RPD
		Malathion	0.36	U	ng/L	P431788	MS
		Metalaxyl	0.51	U	ng/L	P431788	MS
		Metolachlor	0.80	I	ng/L	P431788	RPD
		Metribuzin	0.41	U	ng/L	P431788	RPD
		Mevinphos	1.0	U	ng/L	P431788	RPD
		Molinate	0.26	U	ng/L	P431788	MS
		Myclobutanil	0.36	U	ng/L	P431788	RPD
		Naled	2.6	U	ng/L	P431788	RPD
		Napropamide	0.72	U	ng/L	P431788	
		Norflurazon	1.0	U	ng/L	P431788	RPD
		Oxadiazon	0.39	I	ng/L	P431788	
		Oxyfluorfen	0.20	U	ng/L	P431788	
		Parathion Ethyl	0.15	U	ng/L	P431788	MS, RPD
		Parathion Methyl	0.20	U	ng/L	P431788	MS
		Pendimethalin	0.77	U	ng/L	P431788	
		Phenytoin**	5.4	U	ng/L	P431788	
		Phorate	0.26	U	ng/L	P431788	
		Prodiamine	0.20	U	ng/L	P431788	MS
		Prometon	3.1	U	ng/L	P431788	MS
		Prometryn	0.36	U	ng/L	P431788	
		Pronamide	0.10	U	ng/L	P431788	
		Propanil	0.10	U	ng/L	P431788	
		Propargite	0.82	U	ng/L	P431788	
		Propiconazole	0.61	U	ng/L	P431788	
		Pyraflufen Ethyl	0.31	U	ng/L	P431788	
		Pyridaben	1.4	U	ng/L	P431788	
		Pyriproxyfen	0.26	U	ng/L	P431788	
		Simazine	4.1		ng/L	P431788	RPD
		Stiophos	0.41	U	ng/L	P431788	
		Sulfentrazone	1.4	U	ng/L	P431788	
		Tebuconazole	1.4	U	ng/L	P431788	
		Terbufos	0.20	U	ng/L	P431788	
		Terbuthylazine	0.20	U	ng/L	P431788	
		Thiobencarb	0.51	U	ng/L	P431788	
		Triadimefon	0.15	U	ng/L	P431788	

Ref. Method and Comment:

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

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

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Goose Point Grass Bed

Collection Date/Time: 06/28/2023 15:40

Field ID: G3NW0247

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420527	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P431948	
2420532	EPA 8321B	Aldicarb	0.020	UJ	ug/L	P431979	SUR
		Aldicarb Sulfone	0.0020	UJ	ug/L	P431979	SUR
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P431979	MS, SUR
		Carbaryl	0.0020	UJ	ug/L	P431979	SUR
		Carbofuran	0.0020	UJ	ug/L	P431979	SUR
		3-Hydroxycarbofuran	0.0020	UJ	ug/L	P431979	SUR
		Methiocarb	0.0020	UJ	ug/L	P431979	SUR
		Methomyl	0.0020	UJ	ug/L	P431979	SUR
		Oxamyl	0.0020	UJ	ug/L	P431979	SUR
		Propoxur	0.0020	UJ	ug/L	P431979	SUR
2420536		Acesulfame K	0.10	U	ug/L	P431925	
		2,4-D	0.0035	I	ug/L	P431897	
		2,4,5-T	0.0040	U	ug/L	P431897	
		AMPA	10	UJ	ug/L	P431925	CCV
		Acetaminophen	0.0080	U	ug/L	P431897	
		Endothall	0.25	U	ug/L	P431925	
		Acetamiprid	0.0020	U	ug/L	P431897	
		Glufosinate	10	U	ug/L	P431925	
		Glyphosate	10	U	ug/L	P431925	
		Afidopyropen	0.0020	U	ug/L	P431897	
		Sucralose	0.24		ug/L	P431925	
		Bentazon	8.0E-04	U	ug/L	P431897	
		Benzovindiflupyr	0.0020	U	ug/L	P431897	
		Carbamazepine	8.0E-04	U	ug/L	P431897	
		Clothianidin	0.0020	U	ug/L	P431897	
		Dinotefuran	0.0020	U	ug/L	P431897	
		Diuron	0.0020	U	ug/L	P431897	MS, RPD
		Fenuron	0.032	U	ug/L	P431897	
		Fluridone	8.0E-04	U	ug/L	P431897	
		Imazapyr	0.011	I	ug/L	P431897	
		Hydrocodone	0.0020	U	ug/L	P431897	
		Ibuprofen	0.080	U	ug/L	P431897	
		Imidacloprid	0.0020	U	ug/L	P431897	
		Linuron	0.0040	U	ug/L	P431897	
		Mandestrobin	0.0020	U	ug/L	P431897	
		MCP	0.0020	U	ug/L	P431897	
		Naproxen	0.0080	U	ug/L	P431897	
		Primidone	0.0040	U	ug/L	P431897	
		Pyraclostrobin	0.0020	U	ug/L	P431897	
		Silvex	0.0040	U	ug/L	P431897	
		Thiamethoxam	0.0020	U	ug/L	P431897	
		Tolfenpyrad	0.0020	U	ug/L	P431897	
		Triclopyr	0.0040	U	ug/L	P431897	

Field ID: G3NW0247

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420542	EPA 8270E	Aldrin	0.67	U	ng/L	P432133	
		Alpha-BHC	0.10	U	ng/L	P432133	
		Alpha-Chlordane	0.21	U	ng/L	P432133	
		Beta-BHC	0.16	I	ng/L	P432133	
		Beta-Cyfluthrin	1.3	U	ng/L	P432133	
		Bifenthrin	0.52	U	ng/L	P432133	
		Chlorothalonil	3.7	U	ng/L	P432133	
		Cis-Nonachlor	0.21	U	ng/L	P432133	
		Cypermethrin	1.5	U	ng/L	P432133	
		Dacthal	0.15	U	ng/L	P432133	
		DDD-p,p'	0.26	U	ng/L	P432133	
		DDE-p,p'	0.21	U	ng/L	P432133	
		DDT-p,p'	0.83	U	ng/L	P432133	
		Delta-BHC	0.41	U	ng/L	P432133	
		Deltamethrin	1.3	U	ng/L	P432133	
		Dichlobenil	0.26	U	ng/L	P432133	
		Dicofol	1.3	U	ng/L	P432133	
		Dieldrin	0.41	U	ng/L	P432133	
		Endosulfan I	0.41	U	ng/L	P432133	
		Endosulfan II	0.93	U	ng/L	P432133	
		Endosulfan Sulfate	0.31	U	ng/L	P432133	
		Endrin	0.93	U	ng/L	P432133	
		Endrin Aldehyde	0.77	U	ng/L	P432133	
		Endrin Ketone	0.41	U	ng/L	P432133	
		Esfenvalerate	0.77	U	ng/L	P432133	
		Ethalfuralin	0.15	U	ng/L	P432133	
		Fenpropathrin	0.26	U	ng/L	P432133	
		Gamma-BHC	0.13	U	ng/L	P432133	
		Gamma-Chlordane	0.21	U	ng/L	P432133	
		Heptachlor	0.21	U	ng/L	P432133	
		Heptachlor Epoxide	0.26	U	ng/L	P432133	
		Hexachlorobenzene**	1.0	U	ng/L	P432133	
		Kepone	14	UJ	ng/L	P432133	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P432133	
		Methoprene	0.77	U	ng/L	P432133	
		Methoxychlor	0.31	U	ng/L	P432133	
		MGK-264	0.21	U	ng/L	P432133	
		Mirex	0.36	U	ng/L	P432133	
		Oxychlordane	0.31	U	ng/L	P432133	
		Permethrin	1.7	U	ng/L	P432133	
		Phenothrin	0.93	U	ng/L	P432133	
		Piperonyl Butoxide	0.16	I	ng/L	P432133	
		Prallethrin	2.1	U	ng/L	P432133	
		Tau-Fluvalinate	0.26	U	ng/L	P432133	
		Tetramethrin	0.77	U	ng/L	P432133	

Field ID: G3NW0247

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420542	EPA 8270E	Trans-Nonachlor	0.21	U	ng/L	P432133	
		Triclosan Methyl	0.15	U	ng/L	P432133	
		Trifluralin	0.21	U	ng/L	P432133	
		Chlordane	2.1	UJ	ng/L	P432133	LCS
		Toxaphene	15	U	ng/L	P432133	MS
2420546	EPA 8270E	Acetochlor	0.21	U	ng/L	P431788	MS
		Alachlor	0.41	U	ng/L	P431788	
		Ametryn	1.1	U	ng/L	P431788	
		Atrazine	6.4		ng/L	P431788	MS
		Atrazine Desethyl	2.6	I	ng/L	P431788	
		Azinphos Methyl	3.1	U	ng/L	P431788	
		Azoxystrobin	0.41	U	ng/L	P431788	RPD
		Bromacil	0.62	U	ng/L	P431788	
		Butylate	0.21	U	ng/L	P431788	
		Caffeine**	7.8	U	ng/L	P431788	
		Carbophenothion	0.52	U	ng/L	P431788	RPD
		Carfentrazone Ethyl	0.16	U	ng/L	P431788	RPD
		Chlorfenapyr	0.31	U	ng/L	P431788	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431788	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P431788	MS
		Coumaphos	1.1	U	ng/L	P431788	RPD
		Cyanazine	5.2	U	ng/L	P431788	
		Cyprodinil	0.21	U	ng/L	P431788	
		Demeton	3.6	U	ng/L	P431788	
		Diazinon	0.13	U	ng/L	P431788	
		Difenoconazole	0.62	U	ng/L	P431788	RPD
		Dimethenamid	0.10	U	ng/L	P431788	
		Dimethomorph	0.31	U	ng/L	P431788	
		Disulfoton	0.62	U	ng/L	P431788	
		Dithiopyr	1.0	U	ng/L	P431788	
		EPTC	0.52	U	ng/L	P431788	RPD
		Ethion	0.31	U	ng/L	P431788	
		Ethoprop	0.13	U	ng/L	P431788	MS, RPD
		Etridiazole	0.10	U	ng/L	P431788	RPD
		Fenamiphos	0.47	U	ng/L	P431788	
		Fenbuconazole	0.52	U	ng/L	P431788	MS
		Fipronil	0.21	U	ng/L	P431788	
		Fipronil Desulfinyl**	0.18	I	ng/L	P431788	
		Fipronil Sulfide	0.10	U	ng/L	P431788	
		Fipronil Sulfone	0.10	U	ng/L	P431788	
		Fluazifop-P-butyl	0.10	U	ng/L	P431788	
		Fludioxonil	0.10	U	ng/L	P431788	MS
		Flumioxazin	3.1	U	ng/L	P431788	
		Flutolanil	0.10	U	ng/L	P431788	
		Fluxapyroxad	0.26	U	ng/L	P431788	

Field ID: G3NW0247

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420546	EPA 8270E	Fonofos	0.16	U	ng/L	P431788	
		Hexazinone	0.52	U	ng/L	P431788	MS, RPD
		Imazalil	0.67	U	ng/L	P431788	
		Iprodione	0.52	UJ	ng/L	P431788	CCV
		Loratadine**	0.31	U	ng/L	P431788	RPD
		Malathion	0.36	U	ng/L	P431788	MS
		Metalaxyl	0.52	U	ng/L	P431788	MS
		Metolachlor	0.78	U	ng/L	P431788	RPD
		Metribuzin	0.41	U	ng/L	P431788	RPD
		Mevinphos	1.0	U	ng/L	P431788	RPD
		Molinate	0.26	U	ng/L	P431788	MS
		Myclobutanil	0.36	U	ng/L	P431788	RPD
		Naled	2.6	U	ng/L	P431788	RPD
		Napropamide	0.72	U	ng/L	P431788	
		Norflurazon	1.0	U	ng/L	P431788	RPD
		Oxadiazon	0.36	U	ng/L	P431788	
		Oxyfluorfen	0.21	U	ng/L	P431788	
		Parathion Ethyl	0.16	U	ng/L	P431788	MS, RPD
		Parathion Methyl	0.21	U	ng/L	P431788	MS
		Pendimethalin	0.78	U	ng/L	P431788	
		Phenytol**	5.5	U	ng/L	P431788	
		Phorate	0.26	U	ng/L	P431788	
		Prodiamine	0.22	I	ng/L	P431788	MS
		Prometon	3.1	U	ng/L	P431788	MS
		Prometryn	0.36	U	ng/L	P431788	
		Pronamide	0.10	U	ng/L	P431788	
		Propanil	0.10	U	ng/L	P431788	
		Propargite	0.83	U	ng/L	P431788	
		Propiconazole	0.62	U	ng/L	P431788	
		Pyraflufen Ethyl	0.31	U	ng/L	P431788	
		Pyridaben	1.4	U	ng/L	P431788	
		Pyriproxyfen	0.26	U	ng/L	P431788	
		Simazine	0.26	U	ng/L	P431788	RPD
		Stirophos	0.41	U	ng/L	P431788	
		Sulfentrazone	1.4	U	ng/L	P431788	
		Tebuconazole	1.4	U	ng/L	P431788	
		Terbufos	0.21	U	ng/L	P431788	
		Terbuthylazine	0.21	U	ng/L	P431788	
		Thiobencarb	0.52	U	ng/L	P431788	
		Triadimefon	0.16	U	ng/L	P431788	

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431948

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 8270E
Batch ID: P431788

Component	Result	Code	Units
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431788

Component	Result	Code	Units
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431788

Component	Result	Code	Units
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431788

Component	Result	Code	Units
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L

Reference Method: EPA 8270E

Batch ID: P432133

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
DDT-p,p'	0.80	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432133

Component	Result	Code	Units
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432133

Component	Result	Code	Units
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: P432133

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

Reference Method: EPA 8321B

Batch ID: P431897

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P431925

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: P431979

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 180.1 Rev. 2.0

Batch ID: P431948

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

Reference Method: EPA 8270E

Batch ID: P431788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	78.9		P	69 - 123
Alachlor	87.2		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	89.0		P	73 - 118
Atrazine Desethyl	85.4		P	32 - 125
Azinphos Methyl	152		P	36 - 197
Azoxystrobin	100		P	58 - 226
Bromacil	86.4		P	48 - 120
Butylate	51.0		P	27 - 85.0
Caffeine	104		P	40 - 137
Carbophenothion	97.4		P	54 - 132
Carfentrazone Ethyl	103		P	60 - 142
Chlorfenapyr	83.3		P	53 - 117
Chlorpyrifos Ethyl	86.3		P	59 - 116
Chlorpyrifos Methyl	102		P	66 - 119
Coumaphos	143		P	11 - 234
Cyanazine	128		P	61 - 248
Cyprodinil	90.1		P	50 - 147
Demeton	78.9		P	30 - 138
Diazinon	91.7		P	67 - 126
Difenoconazole	185		P	38 - 205
Dimethenamid	89.7		P	57 - 111
Dimethomorph	95.2		P	16 - 212
Disulfoton	80.7		P	46 - 126
Dithiopyr	81.6		P	62 - 115
EPTC	46.8		P	28 - 80.0
Ethion	76.2		P	24 - 122
Ethoprop	81.6		P	62 - 113
Etridiazole	57.2		P	28 - 92.0
Fenamiphos	88.4		P	57 - 128
Fenbuconazole	102		P	52 - 155
Fipronil	84.6		P	63 - 130
Fipronil Desulfinyl	85.2		P	61 - 130
Fipronil Sulfide	94.2		P	56 - 117
Fipronil Sulfone	92.1		P	52 - 118
Fluazifop-P-butyl	86.4		P	61 - 128
Fludioxonil	86.3		P	59 - 129
Flumioxazin	181		P	30 - 250
Flutolanil	94.6		P	53 - 127
Fluxapyroxad	89.8		P	42 - 132
Fonofos	90.9		P	61 - 110
Hexazinone	91.9		P	46 - 139
Imazalil	90.8		P	40 - 139
Iprodione	54.7		P	40 - 146
Loratadine	190		P	10 - 224
Malathion	87.1		P	61 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	80.5		P	58 - 121
Metolachlor	96.0		P	64 - 118
Metribuzin	88.2		P	45 - 245
Mevinphos	83.1		P	49 - 118
Molinate	51.9		P	42 - 92.0
Myclobutanil	82.5		P	55 - 127
Naled	43.2		P	10 - 114
Napropamide	86.6		P	39 - 121
Norflurazon	85.7		P	55 - 129
Oxadiazon	79.3		P	54 - 115
Oxyfluorfen	104		P	64 - 139
Parathion Ethyl	91.9		P	70 - 111
Parathion Methyl	93.0		P	76 - 136
Pendimethalin	90.8		P	52 - 118
Phenytoin	31.7		P	10 - 162
Phorate	88.2		P	40 - 122
Prodiamine	87.9		P	26 - 141
Prometon	114		P	54 - 122
Prometryn	119		P	61 - 128
Pronamide	96.7		P	72 - 121
Propanil	97.9		P	45 - 144
Propargite	76.2		P	10 - 199
Propiconazole	88.6		P	56 - 127
Pyraflufen Ethyl	93.9		P	56 - 140
Pyridaben	128		P	26 - 211
Pyriproxyfen	108		P	33 - 194
Simazine	86.4		P	67 - 121
Stirophos	61.5		P	20 - 142
Sulfentrazone	78.8		P	21 - 144
Tebuconazole	62.0		P	10 - 122
Terbufos	89.0		P	60 - 129
Terbuthylazine	84.9		P	69 - 113
Thiobencarb	71.0		P	51 - 120
Triadimefon	78.6		P	56 - 114

Reference Method: EPA 8270E

Batch ID: P432133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.0		P	30 - 96.0
Alpha-BHC	81.8		P	70 - 109
Alpha-Chlordane	80.0		P	45 - 107
Beta-BHC	85.7		P	64 - 138
Beta-Cyfluthrin	78.3		P	17 - 141
Bifenthrin	72.1		P	10 - 113
Chlorothalonil	89.1		P	26 - 180
Cis-Nonachlor	76.5		P	37 - 102
Cypermethrin	98.3		P	20 - 133
Dacthal	89.6		P	69 - 114
DDD-p,p'	74.3		P	42 - 105
DDE-p,p'	80.3		P	42 - 106
DDT-p,p'	78.4		P	42 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Delta-BHC	75.4		P	67 - 144
Deltamethrin	120		P	15 - 149
Dichlobenil	74.9		P	46 - 117
Dicofol	79.5		P	34 - 114
Dieldrin	79.7		P	50 - 108
Endosulfan I	86.0		P	55 - 104
Endosulfan II	78.9		P	51 - 111
Endosulfan Sulfate	79.3		P	56 - 121
Endrin	84.1		P	10 - 106
Endrin Aldehyde	84.3		P	34 - 114
Endrin Ketone	92.7		P	63 - 177
Esfenvalerate	107		P	29 - 143
Ethalfuralin	72.1		P	46 - 96.0
Fenpropathrin	78.7		P	28 - 115
Gamma-BHC	86.3		P	65 - 121
Gamma-Chlordane	87.1		P	39 - 103
Heptachlor	78.7		P	39 - 94.0
Heptachlor Epoxide	85.7		P	54 - 104
Hexachlorobenzene	75.9		P	36 - 100
Kepone	39.1		P	10 - 225
Lambda-Cyhalothrin	110		P	10 - 135
Methoprene	70.9		P	10 - 109
Methoxychlor	77.2		P	52 - 112
MGK-264	81.5		P	44 - 117
Mirex	70.1		P	20 - 90.0
Oxychlordane	85.3		P	44 - 102
Permethrin	94.0		P	18 - 135
Phenothrin	67.9		P	10 - 102
Piperonyl Butoxide	92.3		P	28 - 156
Prallethrin	76.7		P	28 - 113
Tau-Fluvalinate	106		P	10 - 123
Tetramethrin	82.2		P	18 - 158
Trans-Nonachlor	78.8		P	39 - 104
Triclosan Methyl	83.2		P	54 - 108
Trifluralin	72.1		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P432133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	56.3		F	61 - 116
Toxaphene	58.8		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P431897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	103		P	40 - 150
2,4,5-T	95.1		P	40 - 150
Acetaminophen	87.0		P	30 - 150
Acetamiprid	74.5		P	40 - 150
Afidopyropen	68.2		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P431897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bentazon	102		P	30 - 150
Benzovindiflupyr	88.9		P	40 - 150
Carbamazepine	73.1		P	40 - 150
Clothianidin	90.6		P	40 - 150
Dinotefuran	91.2		P	40 - 150
Diuron	67.0		P	40 - 150
Fenuron	92.4		P	40 - 150
Fluridone	105		P	40 - 150
Hydrocodone	93.1		P	40 - 150
Ibuprofen	75.8		P	40 - 150
Imazapyr	94.2		P	40 - 150
Imidacloprid	85.9		P	40 - 150
Linuron	90.2		P	40 - 150
Mandestrobin	95.8		P	40 - 150
MCPP	116		P	40 - 150
Naproxen	87.8		P	40 - 150
Primidone	73.0		P	40 - 150
Pyraclostrobin	90.8		P	40 - 150
Silvex	113		P	40 - 150
Thiamethoxam	87.2		P	40 - 150
Tolfenpyrad	60.2		P	30 - 150
Triclopyr	103		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	133		P	40 - 150
AMPA	150		P	40 - 150
Endothall	98.7		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	87.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	71.4		P	40 - 150
Aldicarb	50.5		P	30 - 150
Aldicarb Sulfone	84.5		P	40 - 150
Aldicarb Sulfoxide	87.1		P	40 - 150
Carbaryl	40.9		P	40 - 150
Carbofuran	65.9		P	40 - 150
Methiocarb	59.6		P	40 - 150
Methomyl	80.0		P	40 - 150
Oxamyl	82.9		P	40 - 150
Propoxur	69.4		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419810	Acetochlor	66.2	83.0	F/P	67 - 124
2419810	Alachlor	70.9	75.8	P/P	60 - 120
2419810	Ametryn	136	131	P/P	54 - 216
2419810	Atrazine	58.2	82.8	F/P	66 - 128
2419810	Atrazine Desethyl	66.7	81.8	P/P	15 - 122
2419810	Azinphos Methyl	69.9	107	P/P	40 - 292
2419810	Azoxystrobin	63.8	109	P/P	35 - 220
2419810	Bromacil	77.2	92.1	P/P	45 - 127
2419810	Butylate	40.2	54.8	P/P	20 - 83.0
2419810	Caffeine	127	123	P/P	10 - 194
2419810	Carbophenothion	75.9	107	P/P	57 - 127
2419810	Carfentrazone Ethyl	81.5	108	P/P	51 - 141
2419810	Chlorfenapyr	69.2	83.4	P/P	46 - 111
2419810	Chlorpyrifos Ethyl	54.1	70.7	P/P	52 - 120
2419810	Chlorpyrifos Methyl	59.6	74.8	F/P	63 - 119
2419810	Coumaphos	92.3	155	P/P	10 - 228
2419810	Cyanazine	111	137	P/P	59 - 241
2419810	Cyprodinil	66.6	83.2	P/P	47 - 146
2419810	Demeton	53.7	73.7	P/P	40 - 136
2419810	Diazinon	97.4	118	P/P	69 - 132
2419810	Difenoconazole	77.4	136	P/P	57 - 258
2419810	Dimethenamid	55.5	67.2	P/P	54 - 110
2419810	Dimethomorph	136	200	P/P	28 - 210
2419810	Disulfoton	75.4	86.2	P/P	43 - 133
2419810	Dithiopyr	73.7	89.2	P/P	39 - 116
2419810	EPTC	31.7	53.9	P/P	20 - 78.0
2419810	Ethion	51.0	64.1	P/P	17 - 119
2419810	Ethoprop	60.1	83.7	F/P	66 - 120
2419810	Etridiazole	50.2	72.3	P/P	28 - 96.0
2419810	Fenamiphos	77.2	72.9	P/P	41 - 126
2419810	Fenbuconazole	39.3	55.3	F/P	42 - 169
2419810	Fipronil	74.8	101	P/P	61 - 132
2419810	Fipronil Desulfinyl	57.2	94.1	P/P	56 - 132
2419810	Fipronil Sulfone	56.3	102	P/P	42 - 131
2419810	Fluazifop-P-butyl	53.7	72.3	P/P	53 - 131
2419810	Fludioxonil	55.1	69.9	F/P	56 - 127
2419810	Flumioxazin	119	184	P/P	19 - 300
2419810	Flutolanil	68.3	74.6	P/P	41 - 127
2419810	Fluxapyroxad	63.1	83.8	P/P	42 - 172
2419810	Fonofos	62.0	74.0	P/P	59 - 113
2419810	Hexazinone	49.7	91.4	F/P	66 - 122
2419810	Imazalil	102	101	P/P	21 - 283
2419810	Iprodione	69.5	81.7	P/P	43 - 150
2419810	Loratadine	97.0	178	P/P	23 - 201
2419810	Malathion	57.7	77.9	F/P	58 - 136
2419810	Metalaxyl	49.9	53.2	F/F	55 - 120
2419810	Metolachlor	65.2	88.6	P/P	57 - 121
2419810	Metribuzin	65.3	104	P/P	58 - 294
2419810	Mevinphos	55.1	87.7	P/P	50 - 126
2419810	Molinate	41.6	53.9	F/P	42 - 93.0
2419810	Myclobutanil	68.5	96.2	P/P	55 - 125
2419810	Naled	27.6	42.9	P/P	18 - 200

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419810	Napropamide	55.4	58.1	P/P	39 - 110
2419810	Norflurazon	64.5	91.1	P/P	48 - 128
2419810	Oxyfluorfen	107	139	P/P	64 - 153
2419810	Parathion Ethyl	60.6	91.2	F/P	69 - 114
2419810	Parathion Methyl	59.9	79.2	F/P	79 - 139
2419810	Pendimethalin	80.4	104	P/P	50 - 139
2419810	Phenytoin	31.5	37.6	P/P	10 - 146
2419810	Phorate	69.1	90.4	P/P	54 - 161
2419810	Prodiamine	27.9	36.9	F/P	30 - 161
2419810	Prometon	44.1	48.1	F/P	45 - 134
2419810	Prometryn	84.9	100	P/P	45 - 137
2419810	Pronamide	82.2	101	P/P	65 - 133
2419810	Propanil	87.1	99.0	P/P	49 - 142
2419810	Propargite	34.0	38.5	P/P	10 - 203
2419810	Propiconazole	59.5	69.9	P/P	38 - 146
2419810	Pyraflufen Ethyl	72.8	91.4	P/P	34 - 153
2419810	Pyridaben	60.0	81.2	P/P	12 - 192
2419810	Pyriproxyfen	57.6	81.2	P/P	33 - 180
2419810	Simazine	56.3	81.5	P/P	51 - 157
2419810	Stirophos	46.4	55.0	P/P	10 - 128
2419810	Tebuconazole	41.5	42.8	P/P	10 - 133
2419810	Terbufos	76.6	97.9	P/P	65 - 139
2419810	Terbuthylazine	66.4	81.5	P/P	66 - 117
2419810	Thiobencarb	68.6	81.9	P/P	51 - 119
2419810	Triadimefon	71.5	91.2	P/P	48 - 119

Reference Method: EPA 8270E

Batch ID: P432133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420539	Aldrin	48.3	47.8	P/P	24 - 81.0
2420539	Alpha-BHC	81.2	80.5	P/P	65 - 110
2420539	Alpha-Chlordane	77.0	75.4	P/P	43 - 119
2420539	Beta-BHC	79.5	73.6	P/P	54 - 165
2420539	Beta-Cyfluthrin	62.9	60.8	P/P	27 - 165
2420539	Bifenthrin	94.6	94.3	P/P	17 - 117
2420539	Chlorothalonil	129	119	P/P	10 - 255
2420539	Cis-Nonachlor	62.6	58.3	P/P	34 - 98.0
2420539	Cypermethrin	68.4	68.9	P/P	25 - 143
2420539	Dacthal	78.3	87.8	P/P	55 - 139
2420539	DDD-p,p'	64.4	60.0	P/P	30 - 109
2420539	DDE-p,p'	65.0	66.0	P/P	35 - 106
2420539	DDT-p,p'	72.7	73.4	P/P	41 - 101
2420539	Delta-BHC	96.5	86.7	P/P	58 - 165
2420539	Deltamethrin	91.0	89.8	P/P	10 - 194
2420539	Dichlobenil	35.4	36.1	P/P	22 - 114
2420539	Dicofol	82.8	83.4	P/P	17 - 133
2420539	Dieldrin	85.9	80.8	P/P	45 - 129
2420539	Endosulfan I	96.4	91.3	P/P	49 - 104
2420539	Endosulfan II	65.9	72.6	P/P	37 - 117
2420539	Endosulfan Sulfate	61.6	65.6	P/P	38 - 128
2420539	Endrin	67.4	68.5	P/P	35 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420539	Endrin Aldehyde	45.6	41.3	P/P	19 - 108
2420539	Endrin Ketone	84.5	79.1	P/P	44 - 134
2420539	Esfenvalerate	90.4	90.6	P/P	27 - 176
2420539	Ethalfuralin	70.2	72.8	P/P	49 - 100
2420539	Fenpropathrin	84.9	87.1	P/P	34 - 117
2420539	Gamma-BHC	95.9	89.2	P/P	59 - 129
2420539	Gamma-Chlordane	70.4	76.0	P/P	33 - 107
2420539	Heptachlor	90.1	80.7	P/P	37 - 94.0
2420539	Heptachlor Epoxide	92.0	89.1	P/P	38 - 118
2420539	Hexachlorobenzene	72.7	68.9	P/P	35 - 97.0
2420539	Kepone	24.7	27.0	P/P	10 - 221
2420539	Lambda-Cyhalothrin	121	121	P/P	23 - 190
2420539	Methoprene	69.5	79.4	P/P	21 - 109
2420539	Methoxychlor	77.9	78.5	P/P	46 - 118
2420539	MGK-264	78.0	82.2	P/P	39 - 122
2420539	Mirex	54.0	56.5	P/P	25 - 90.0
2420539	Oxychlordane	92.4	95.5	P/P	42 - 100
2420539	Permethrin	80.1	73.4	P/P	33 - 181
2420539	Phenothrin	71.8	72.9	P/P	12 - 125
2420539	Piperonyl Butoxide	94.4	95.1	P/P	10 - 178
2420539	Prallethrin	66.0	70.4	P/P	24 - 122
2420539	Tau-Fluvalinate	104	107	P/P	13 - 151
2420539	Tetramethrin	85.8	84.5	P/P	16 - 172
2420539	Trans-Nonachlor	78.7	76.4	P/P	39 - 100
2420539	Triclosan Methyl	94.7	82.0	P/P	43 - 110
2420539	Trifluralin	69.4	67.9	P/P	45 - 94.0

Reference Method: EPA 8276

Batch ID: P432133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421171	Chlordane	54.4	59.6	P/P	53 - 126
2421171	Toxaphene	27.3	37.6	F/F	56 - 211

Reference Method: EPA 8321B

Batch ID: P431897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420079	2,4-D	97.4	104	P/P	40 - 150
2420079	2,4,5-T	94.4	104	P/P	40 - 150
2420079	Acetaminophen	86.3	83.3	P/P	30 - 150
2420079	Acetamiprid	78.8	84.7	P/P	40 - 150
2420079	Afidopyropen	61.3	69.1	P/P	30 - 150
2420079	Bentazon	99.4	103	P/P	30 - 150
2420079	Benzovindiflupyr	89.7	94.5	P/P	40 - 150
2420079	Carbamazepine	66.9	69.6	P/P	40 - 150
2420079	Clothianidin	109	110	P/P	40 - 150
2420079	Dinotefuran	93.8	83.2	P/P	40 - 150
2420079	Diuron	64.2	29.9	P/F	40 - 150
2420079	Fenuron	79.7	77.0	P/P	40 - 150
2420079	Fluridone	101	104	P/P	40 - 150
2420079	Hydrocodone	87.1	87.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420079	Ibuprofen	79.0	79.6	P/P	40 - 150
2420079	Imazapyr	105	108	P/P	40 - 150
2420079	Imidacloprid	117	119	P/P	40 - 150
2420079	Linuron	64.2	67.3	P/P	40 - 150
2420079	Mandestrobin	88.5	93.7	P/P	40 - 150
2420079	MCCP	124	127	P/P	40 - 150
2420079	Naproxen	81.3	102	P/P	40 - 150
2420079	Primidone	79.1	71.4	P/P	40 - 150
2420079	Pyraclostrobin	88.8	88.6	P/P	40 - 150
2420079	Silvex	122	123	P/P	40 - 150
2420079	Thiamethoxam	88.2	91.3	P/P	40 - 150
2420079	Tolfenpyrad	59.6	61.6	P/P	30 - 150
2420079	Triclopyr	110	113	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420339	Acesulfame K	137	138	P/P	40 - 150
2420339	AMPA	121	120	P/P	40 - 150
2420339	Endothall	105	103	P/P	40 - 150
2420339	Glufosinate	92.6	91.4	P/P	40 - 150
2420339	Glyphosate	103	98.6	P/P	40 - 150
2420339	Sucralose	86.2	79.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420529	3-Hydroxycarbofuran	65.7	84.1	P/P	40 - 150
2420529	Aldicarb	44.1	51.5	P/P	30 - 150
2420529	Aldicarb Sulfone	66.4	79.8	P/P	40 - 150
2420529	Aldicarb Sulfoxide	31.7	34.6	F/F	40 - 150
2420529	Carbaryl	41.6	52.6	P/P	40 - 150
2420529	Carbofuran	47.9	57.7	P/P	40 - 150
2420529	Methiocarb	43.9	56.9	P/P	40 - 150
2420529	Methomyl	59.9	73.8	P/P	40 - 150
2420529	Oxamyl	62.1	74.4	P/P	40 - 150
2420529	Propoxur	53.0	61.1	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P431948

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420466	Turbidity	15.3	Sample	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P431788

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419810	Acetochlor	22.5	Spike	P	0 - 28
2419810	Alachlor	6.65	Spike	P	0 - 30
2419810	Ametryn	3.29	Spike	P	0 - 32
2419810	Atrazine	28.8	Spike	P	0 - 41
2419810	Atrazine Desethyl	20.2	Spike	P	0 - 36
2419810	Azinphos Methyl	41.9	Spike	P	0 - 75
2419810	Azoxystrobin	51.9	Spike	F	0 - 39
2419810	Bromacil	17.7	Spike	P	0 - 33
2419810	Butylate	30.9	Spike	P	0 - 44
2419810	Caffeine	3.48	Spike	P	0 - 74
2419810	Carbophenothion	33.8	Spike	F	0 - 25
2419810	Carfentrazone Ethyl	27.9	Spike	F	0 - 27
2419810	Chlorfenapyr	18.6	Spike	P	0 - 24
2419810	Chlorpyrifos Ethyl	26.7	Spike	F	0 - 26
2419810	Chlorpyrifos Methyl	22.7	Spike	P	0 - 26
2419810	Coumaphos	50.6	Spike	F	0 - 28
2419810	Cyanazine	21.0	Spike	P	0 - 48
2419810	Cyprodinil	22.1	Spike	P	0 - 29
2419810	Demeton	31.3	Spike	P	0 - 33
2419810	Diazinon	18.8	Spike	P	0 - 29
2419810	Difenoconazole	55.0	Spike	F	0 - 34
2419810	Dimethenamid	19.0	Spike	P	0 - 39
2419810	Dimethomorph	38.1	Spike	P	0 - 51
2419810	Disulfoton	13.4	Spike	P	0 - 30
2419810	Dithiopyr	19.1	Spike	P	0 - 26
2419810	EPTC	51.8	Spike	F	0 - 43
2419810	Ethion	22.7	Spike	P	0 - 79
2419810	Ethoprop	32.8	Spike	F	0 - 29
2419810	Etridiazole	36.1	Spike	F	0 - 33
2419810	Fenamiphos	5.74	Spike	P	0 - 40
2419810	Fenbuconazole	33.8	Spike	P	0 - 74
2419810	Fipronil	27.8	Spike	P	0 - 29
2419810	Fipronil Desulfinyl	22.7	Spike	P	0 - 32
2419810	Fipronil Sulfide	13.8	Spike	P	0 - 30
2419810	Fipronil Sulfone	27.6	Spike	P	0 - 33
2419810	Fluazifop-P-butyl	29.4	Spike	P	0 - 38
2419810	Fludioxonil	23.7	Spike	P	0 - 29
2419810	Flumioxazin	42.7	Spike	P	0 - 51
2419810	Flutolanil	8.87	Spike	P	0 - 25
2419810	Fluxapyroxad	28.1	Spike	P	0 - 45
2419810	Fonofos	17.7	Spike	P	0 - 27
2419810	Hexazinone	35.3	Spike	F	0 - 30
2419810	Imazalil	0.743	Spike	P	0 - 100
2419810	Iprodione	16.2	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P431788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419810	Loratadine	59.1	Spike	F	0 - 56
2419810	Malathion	29.7	Spike	P	0 - 37
2419810	Metalaxyl	6.39	Spike	P	0 - 40
2419810	Metolachlor	30.5	Spike	F	0 - 29
2419810	Metribuzin	46.2	Spike	F	0 - 45
2419810	Mevinphos	45.7	Spike	F	0 - 29
2419810	Molinate	25.6	Spike	P	0 - 33
2419810	Myclobutanil	33.6	Spike	F	0 - 26
2419810	Naled	43.3	Spike	F	0 - 37
2419810	Napropamide	4.63	Spike	P	0 - 44
2419810	Norflurazon	34.2	Spike	F	0 - 30
2419810	Oxadiazon	25.2	Spike	P	0 - 28
2419810	Oxyfluorfen	26.7	Spike	P	0 - 28
2419810	Parathion Ethyl	40.3	Spike	F	0 - 31
2419810	Parathion Methyl	27.8	Spike	P	0 - 29
2419810	Pendimethalin	25.3	Spike	P	0 - 33
2419810	Phenytoin	17.8	Spike	P	0 - 100
2419810	Phorate	26.8	Spike	P	0 - 36
2419810	Prodiamine	27.8	Spike	P	0 - 71
2419810	Prometon	8.68	Spike	P	0 - 36
2419810	Prometryn	16.6	Spike	P	0 - 28
2419810	Pronamide	19.6	Spike	P	0 - 24
2419810	Propanil	12.8	Spike	P	0 - 28
2419810	Propargite	12.3	Spike	P	0 - 43
2419810	Propiconazole	16.0	Spike	P	0 - 33
2419810	Pyraflufen Ethyl	22.6	Spike	P	0 - 29
2419810	Pyridaben	20.0	Spike	P	0 - 30
2419810	Pyriproxyfen	34.0	Spike	P	0 - 79
2419810	Simazine	36.6	Spike	F	0 - 29
2419810	Stirophos	17.0	Spike	P	0 - 61
2419810	Sulfentrazone	26.2	Spike	P	0 - 33
2419810	Tebuconazole	3.06	Spike	P	0 - 69
2419810	Terbufos	24.3	Spike	P	0 - 29
2419810	Terbuthylazine	20.4	Spike	P	0 - 32
2419810	Thiobencarb	17.6	Spike	P	0 - 26
2419810	Triadimefon	24.2	Spike	P	0 - 28

Reference Method: EPA 8270E
Batch ID: P432133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420539	Aldrin	1.12	Spike	P	0 - 41
2420539	Alpha-BHC	0.819	Spike	P	0 - 25
2420539	Alpha-Chlordane	2.11	Spike	P	0 - 32
2420539	Beta-BHC	7.15	Spike	P	0 - 33
2420539	Beta-Cyfluthrin	3.41	Spike	P	0 - 43
2420539	Bifenthrin	0.242	Spike	P	0 - 52
2420539	Chlorothalonil	8.07	Spike	P	0 - 82
2420539	Cis-Nonachlor	7.16	Spike	P	0 - 33
2420539	Cypermethrin	0.763	Spike	P	0 - 51

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P432133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420539	Dacthal	11.4	Spike	P	0 - 27
2420539	DDD-p,p'	7.07	Spike	P	0 - 39
2420539	DDE-p,p'	1.62	Spike	P	0 - 31
2420539	DDT-p,p'	0.856	Spike	P	0 - 29
2420539	Delta-BHC	10.6	Spike	P	0 - 35
2420539	Deltamethrin	1.32	Spike	P	0 - 100
2420539	Dichlobenil	1.78	Spike	P	0 - 40
2420539	Dicofol	0.727	Spike	P	0 - 37
2420539	Dieldrin	6.13	Spike	P	0 - 27
2420539	Endosulfan I	5.41	Spike	P	0 - 23
2420539	Endosulfan II	9.69	Spike	P	0 - 34
2420539	Endosulfan Sulfate	6.23	Spike	P	0 - 36
2420539	Endrin	1.65	Spike	P	0 - 45
2420539	Endrin Aldehyde	9.77	Spike	P	0 - 76
2420539	Endrin Ketone	6.56	Spike	P	0 - 43
2420539	Esfenvalerate	0.199	Spike	P	0 - 51
2420539	Ethalfuralin	3.65	Spike	P	0 - 22
2420539	Fenpropathrin	2.54	Spike	P	0 - 49
2420539	Gamma-BHC	7.16	Spike	P	0 - 28
2420539	Gamma-Chlordane	6.84	Spike	P	0 - 40
2420539	Heptachlor	11.0	Spike	P	0 - 29
2420539	Heptachlor Epoxide	3.27	Spike	P	0 - 33
2420539	Hexachlorobenzene	5.36	Spike	P	0 - 36
2420539	Kepone	8.94	Spike	P	0 - 85
2420539	Lambda-Cyhalothrin	0.599	Spike	P	0 - 55
2420539	Methoprene	13.3	Spike	P	0 - 53
2420539	Methoxychlor	0.731	Spike	P	0 - 50
2420539	MGK-264	5.26	Spike	P	0 - 43
2420539	Mirex	4.52	Spike	P	0 - 40
2420539	Oxychlordane	3.22	Spike	P	0 - 31
2420539	Permethrin	8.73	Spike	P	0 - 50
2420539	Phenothrin	1.39	Spike	P	0 - 58
2420539	Piperonyl Butoxide	0.737	Spike	P	0 - 100
2420539	Prallethrin	6.37	Spike	P	0 - 39
2420539	Tau-Fluvalinate	2.27	Spike	P	0 - 54
2420539	Tetramethrin	1.55	Spike	P	0 - 51
2420539	Trans-Nonachlor	3.01	Spike	P	0 - 39
2420539	Triclosan Methyl	14.4	Spike	P	0 - 31
2420539	Trifluralin	2.16	Spike	P	0 - 22

Reference Method: EPA 8276
Batch ID: P432133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421171	Chlordane	9.18	Spike	P	0 - 25
2421171	Toxaphene	16.0	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P431897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420079	2,4-D	5.29	Spike	P	0 - 30
2420079	2,4,5-T	9.54	Spike	P	0 - 30
2420079	Acetaminophen	3.48	Spike	P	0 - 30
2420079	Acetamiprid	7.26	Spike	P	0 - 30
2420079	Afidopyropen	11.9	Spike	P	0 - 30
2420079	Bentazon	3.19	Spike	P	0 - 30
2420079	Benzovindiflupyr	5.20	Spike	P	0 - 30
2420079	Carbamazepine	3.95	Spike	P	0 - 30
2420079	Clothianidin	1.70	Spike	P	0 - 30
2420079	Dinotefuran	12.0	Spike	P	0 - 30
2420079	Diuron	72.9	Spike	F	0 - 30
2420079	Fenuron	3.46	Spike	P	0 - 30
2420079	Fluridone	2.38	Spike	P	0 - 30
2420079	Hydrocodone	0.208	Spike	P	0 - 30
2420079	Ibuprofen	0.751	Spike	P	0 - 30
2420079	Imazapyr	2.44	Spike	P	0 - 30
2420079	Imidacloprid	1.68	Spike	P	0 - 30
2420079	Linuron	4.66	Spike	P	0 - 30
2420079	Mandestrobin	5.67	Spike	P	0 - 30
2420079	MCP	3.08	Spike	P	0 - 30
2420079	Naproxen	22.4	Spike	P	0 - 30
2420079	Primidone	10.2	Spike	P	0 - 30
2420079	Pyraclostrobin	0.237	Spike	P	0 - 30
2420079	Silvex	0.757	Spike	P	0 - 30
2420079	Thiamethoxam	3.46	Spike	P	0 - 30
2420079	Tolfenpyrad	3.27	Spike	P	0 - 30
2420079	Triclopyr	2.05	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420339	Acesulfame K	0.880	Spike	P	0 - 30
2420339	AMPA	0.482	Spike	P	0 - 30
2420339	Endothall	1.62	Spike	P	0 - 30
2420339	Glufosinate	1.24	Spike	P	0 - 30
2420339	Glyphosate	4.62	Spike	P	0 - 30
2420339	Sucralose	7.26	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420529	3-Hydroxycarbofuran	24.6	Spike	P	0 - 30
2420529	Aldicarb	15.5	Spike	P	0 - 30
2420529	Aldicarb Sulfone	18.4	Spike	P	0 - 30
2420529	Aldicarb Sulfoxide	8.63	Spike	P	0 - 30
2420529	Carbaryl	23.3	Spike	P	0 - 30
2420529	Carbofuran	18.6	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P431979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420529	Methiocarb	25.9	Spike	P	0 - 30
2420529	Methomyl	20.7	Spike	P	0 - 30
2420529	Oxamyl	18.0	Spike	P	0 - 30
2420529	Propoxur	14.2	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2420529
Field Sample ID: G3NW0246

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	44.8	P	30 - 160

Lab Sample ID: 2420530
Field Sample ID: G3NW0249

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	45.1	P	30 - 160

Lab Sample ID: 2420531
Field Sample ID: G3NW0248

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	44.9	P	30 - 160

Lab Sample ID: 2420532
Field Sample ID: G3NW0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	36.2	P	30 - 160
EPA 8321B	Carbaryl-d7	28.3	F	30 - 160

Lab Sample ID: 2420533
Field Sample ID: G3NW0246

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	123	P	30 - 160
EPA 8321B	Acetaminophen-d4	74.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.3	P	30 - 160
EPA 8321B	Diuron-d6	42.4	P	30 - 160
EPA 8321B	Endothall-d6	67.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.3	P	30 - 160
EPA 8321B	Primidone-d5	84.1	P	30 - 160
EPA 8321B	Sucralose-d6	83.0	P	30 - 160

Lab Sample ID: 2420534
Field Sample ID: G3NW0249

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	122	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.7	P	30 - 160
EPA 8321B	Diuron-d6	45.5	P	30 - 160
EPA 8321B	Endothall-d6	65.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	36.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.8	P	30 - 160
EPA 8321B	Primidone-d5	96.3	P	30 - 160
EPA 8321B	Sucralose-d6	94.9	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2420535

Field Sample ID: G3NW0248

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	144	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.9	P	30 - 160
EPA 8321B	Diuron-d6	54.1	P	30 - 160
EPA 8321B	Endothall-d6	65.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	32.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	91.4	P	30 - 160
EPA 8321B	Primidone-d5	97.2	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Lab Sample ID: 2420536

Field Sample ID: G3NW0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	62.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.6	P	30 - 160
EPA 8321B	Diuron-d6	56.9	P	30 - 160
EPA 8321B	Endothall-d6	63.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	75.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.2	P	30 - 160
EPA 8321B	Primidone-d5	79.8	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2420539

Field Sample ID: G3NW0246

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.7	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	70.7	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	42.7	P	30 - 101
EPA 8276	PCNB	79.2	P	48 - 121

Lab Sample ID: 2420540

Field Sample ID: G3NW0249

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	60.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	64.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	35.9	P	30 - 101
EPA 8276	PCNB	74.6	P	48 - 121

Lab Sample ID: 2420541

Field Sample ID: G3NW0248

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	70.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	47.4	P	30 - 101
EPA 8276	PCNB	81.0	P	48 - 121

Quality Assurance Report Surrogates

Lab Sample ID: 2420542
Field Sample ID: G3NW0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	74.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	58.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	48.4	P	30 - 101
EPA 8276	PCNB	69.8	P	48 - 121

Lab Sample ID: 2420543
Field Sample ID: G3NW0246

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.8	P	20 - 200
EPA 8270E	Simazine-d10	89.7	P	62 - 142
EPA 8270E	Terbufos-d10	76.6	P	58 - 132

Lab Sample ID: 2420544
Field Sample ID: G3NW0249

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	79.1	P	20 - 200
EPA 8270E	Simazine-d10	86.4	P	62 - 142
EPA 8270E	Terbufos-d10	77.5	P	58 - 132

Lab Sample ID: 2420545
Field Sample ID: G3NW0248

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	77.3	P	20 - 200
EPA 8270E	Simazine-d10	113	P	62 - 142
EPA 8270E	Terbufos-d10	83.8	P	58 - 132

Lab Sample ID: 2420546
Field Sample ID: G3NW0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	97.0	P	20 - 200
EPA 8270E	Simazine-d10	114	P	62 - 142
EPA 8270E	Terbufos-d10	85.8	P	58 - 132

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120104

Included Lab Sample IDs: 2420524, 2420525, 2420526, 2420527

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	102	P/P	95 - 105
Turbidity	102	102	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A120150

Included Lab Sample IDs: 2420533, 2420534, 2420535, 2420536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	135	148	P/P	60 - 160
Sucralose	86.4	76.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A120153

Included Lab Sample IDs: 2420533, 2420534, 2420535, 2420536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	144	166*	P/F	60 - 160
AMPA	153	144	P/P	60 - 160
Endothall	99.7	66.6	P/P	60 - 160
Glufosinate	92.5	99.2	P/P	60 - 160
Glufosinate	99.2	97.5	P/P	60 - 160
Glyphosate	104	107	P/P	60 - 160
Glyphosate	112	104	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A120154

Included Lab Sample IDs: 2420533, 2420534, 2420535, 2420536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.3	87.0	P/P	50 - 150
2,4,5-T	92.7	92.4	P/P	50 - 150
Acetaminophen	84.6	102	P/P	60 - 160
Acetamiprid	103	112	P/P	50 - 150
Afidopyropen	90.0	106	P/P	50 - 150
Bentazon	118	119	P/P	50 - 160
Benzovindiflupyr	117	115	P/P	50 - 150
Carbamazepine	104	93.0	P/P	60 - 150
Clothianidin	107	110	P/P	60 - 150
Dinotefuran	97.2	114	P/P	50 - 150
Diuron	96.3	107	P/P	60 - 160
Fenuron	104	109	P/P	60 - 150
Fluridone	117	116	P/P	60 - 160
Hydrocodone	109	117	P/P	60 - 150
Ibuprofen	113	97.2	P/P	50 - 160
Imazapyr	96.1	96.3	P/P	50 - 150
Imidacloprid	97.1	97.7	P/P	60 - 150
Linuron	98.3	99.3	P/P	60 - 150
Mandestrobin	111	119	P/P	50 - 150
MCPP	82.7	93.6	P/P	50 - 150
Naproxen	91.3	119	P/P	50 - 160
Primidone	84.1	81.6	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A120154

Included Lab Sample IDs: 2420533, 2420534, 2420535, 2420536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	115	119	P/P	60 - 150
Silvex	82.7	90.7	P/P	50 - 150
Thiamethoxam	105	87.5	P/P	50 - 150
Tolfenpyrad	101	104	P/P	60 - 150
Triclopyr	84.5	98.3	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A120221

Included Lab Sample IDs: 2420529, 2420530, 2420531, 2420532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	95.9	103	P/P	60 - 150
Aldicarb	93.5	97.9	P/P	60 - 150
Aldicarb Sulfone	104	102	P/P	50 - 150
Aldicarb Sulfoxide	101	103	P/P	50 - 150
Carbaryl	94.8	94.1	P/P	60 - 150
Carbofuran	96.8	98.4	P/P	50 - 150
Methiocarb	106	109	P/P	50 - 150
Methomyl	99.5	103	P/P	50 - 150
Oxamyl	96.4	99.6	P/P	50 - 150
Propoxur	100	100	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A120273

Included Lab Sample IDs: 2420539, 2420540, 2420541, 2420542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	98.9		P	80 - 120
Alpha-Chlordane	103		P	80 - 120
Beta-BHC	96.4		P	80 - 120
Beta-Cyfluthrin	104		P	80 - 120
Bifenthrin	103		P	80 - 120
Chlorothalonil	100		P	80 - 120
Cis-Nonachlor	99.3		P	80 - 120
Cypermethrin	102		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	99.5		P	80 - 120
Delta-BHC	92.9		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	99.1		P	80 - 120
Dicofol	97.2		P	80 - 120
Dieldrin	99.1		P	80 - 120
Endosulfan I	99.0		P	80 - 120
Endosulfan II	97.6		P	80 - 120
Endosulfan Sulfate	98.0		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	91.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A120273

Included Lab Sample IDs: 2420539, 2420540, 2420541, 2420542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Esfenvalerate	103		P	80 - 120
Ethalfuralin	99.8		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	94.7		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	95.2		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	98.1		P	80 - 120
Kepone	61.4*		F	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	99.8		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	99.5		P	80 - 120
Oxychlordane	100		P	80 - 120
Permethrin	106		P	80 - 120
Phenothrin	103		P	80 - 120
Piperonyl Butoxide	94.1		P	80 - 120
Prallethrin	98.3		P	80 - 120
Tau-Fluvalinate	103		P	80 - 120
Tetramethrin	100		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	99.9		P	80 - 120

Reference Method: EPA 8276

Run ID: A120289

Included Lab Sample IDs: 2420539, 2420540, 2420541, 2420542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.7		P	80 - 120
Toxaphene	88.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A120359

Included Lab Sample IDs: 2420543, 2420544, 2420545, 2420546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.6		P	80 - 120
Alachlor	90.0		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	93.8		P	80 - 120
Atrazine Desethyl	97.0		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	98.7		P	80 - 120
Caffeine	85.1		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	86.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A120359

Included Lab Sample IDs: 2420543, 2420544, 2420545, 2420546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	89.0		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	100		P	80 - 120
Cyanazine	95.3		P	80 - 120
Cyprodinil	95.4		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	96.3		P	80 - 120
Difenoconazole	110		P	80 - 120
Dimethenamid	99.1		P	80 - 120
Dimethomorph	98.9		P	80 - 120
Disulfoton	94.3		P	80 - 120
Dithiopyr	94.5		P	80 - 120
EPTC	102		P	80 - 120
Ethion	87.2		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	97.5		P	80 - 120
Fenamiphos	90.1		P	80 - 120
Fenbuconazole	89.0		P	80 - 120
Fipronil	87.7		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	109		P	80 - 120
Fludioxonil	94.1		P	80 - 120
Flumioxazin	106		P	80 - 120
Flutolanil	97.9		P	80 - 120
Fluxapyroxad	98.5		P	80 - 120
Fonofos	95.6		P	80 - 120
Hexazinone	98.6		P	80 - 120
Imazalil	93.6		P	80 - 120
Iprodione	66.6*		F	80 - 120
Loratadine	101		P	80 - 120
Malathion	82.9		P	80 - 120
Metaxyl	86.7		P	80 - 120
Metolachlor	96.6		P	80 - 120
Metribuzin	95.0		P	80 - 120
Mevinphos	98.4		P	80 - 120
Molinate	86.3		P	80 - 120
Myclobutanil	82.9		P	80 - 120
Naled	94.8		P	80 - 120
Napropamide	98.8		P	80 - 120
Norflurazon	99.8		P	80 - 120
Oxadiazon	96.2		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	98.3		P	80 - 120
Parathion Methyl	89.8		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	112		P	80 - 120
Phorate	90.4		P	80 - 120
Prodiamine	91.0		P	80 - 120
Prometon	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A120359

Included Lab Sample IDs: 2420543, 2420544, 2420545, 2420546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	105		P	80 - 120
Pronamide	97.9		P	80 - 120
Propanil	94.2		P	80 - 120
Propargite	98.6		P	80 - 120
Propiconazole	83.9		P	80 - 120
Pyraflufen Ethyl	94.7		P	80 - 120
Pyridaben	99.7		P	80 - 120
Pyriproxyfen	99.3		P	80 - 120
Simazine	88.8		P	80 - 120
Stirophos	91.0		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	97.0		P	80 - 120
Terbufos	96.4		P	80 - 120
Terbutylazine	82.6		P	80 - 120
Thiobencarb	97.7		P	80 - 120
Triadimefon	98.2		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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity	100				15.3	
EPA 8270E	Acetochlor	78.9	66.2	83.0			22.5
	Alachlor	87.2	70.9	75.8			6.65
	Aldrin	52.0	48.3	47.8			1.12
	Alpha-BHC	81.8	81.2	80.5			0.819
	Alpha-Chlordane	80.0	77.0	75.4			2.11
	Ametryn	113	136	131			3.29
	Atrazine	89.0	58.2	82.8			28.8
	Atrazine Desethyl	85.4	81.8	66.7			20.2
	Azinphos Methyl	152	107	69.9			41.9
	Azoxystrobin	100	109	63.8			51.9
	Beta-BHC	85.7	79.5	73.6			7.15
	Beta-Cyfluthrin	78.3	62.9	60.8			3.41
	Bifenthrin	72.1	94.6	94.3			0.242
	Bromacil	86.4	92.1	77.2			17.7
	Butylate	51.0	54.8	40.2			30.9
	Caffeine	104	123	127			3.48
	Carbophenothion	97.4	107	75.9			33.8
	Carfentrazone Ethyl	103	108	81.5			27.9
	Chlorfenapyr	83.3	83.4	69.2			18.6
	Chlorothalonil	89.1	129	119			8.07
	Chlorpyrifos Ethyl	86.3	70.7	54.1			26.7
	Chlorpyrifos Methyl	102	74.8	59.6			22.7
	Cis-Nonachlor	76.5	62.6	58.3			7.16
	Coumaphos	143	155	92.3			50.6
	Cyanazine	128	137	111			21.0
	Cypermethrin	98.3	68.4	68.9			0.763
	Cyprodinil	90.1	83.2	66.6			22.1
	Dacthal	89.6	78.3	87.8			11.4
	DDD-p,p'	74.3	64.4	60.0			7.07
	DDE-p,p'	80.3	65.0	66.0			1.62
	DDT-p,p'	78.4	72.7	73.4			0.856
	Delta-BHC	75.4	96.5	86.7			10.6
	Deltamethrin	120	91.0	89.8			1.32
	Demeton	78.9	53.7	73.7			31.3
	Diazinon	91.7	97.4	118			18.8
	Dichlobenil	74.9	35.4	36.1			1.78
	Dicofol	79.5	82.8	83.4			0.727
	Dieldrin	79.7	85.9	80.8			6.13
	Difenoconazole	185	77.4	136			55.0
	Dimethenamid	89.7	55.5	67.2			19.0
	Dimethomorph	95.2	136	200			38.1
	Disulfoton	80.7	75.4	86.2			13.4
	Dithiopyr	81.6	73.7	89.2			19.1
	Endosulfan I	86.0	96.4	91.3			5.41
	Endosulfan II	78.9	65.9	72.6			9.69
	Endosulfan Sulfate	79.3	61.6	65.6			6.23
	Endrin	84.1	67.4	68.5			1.65
	Endrin Aldehyde	84.3	45.6	41.3			9.77
	Endrin Ketone	92.7	84.5	79.1			6.56
	EPTC	46.8	31.7	53.9			51.8
	Esfenvalerate	107	90.4	90.6			0.199
	Ethalfuralin	72.1	70.2	72.8			3.65
	Ethion	76.2	51.0	64.1			22.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Ethoprop	81.6	60.1	83.7		32.8
	Etridiazole	57.2	50.2	72.3		36.1
	Fenamiphos	88.4	77.2	72.9		5.74
	Fenbuconazole	102	39.3	55.3		33.8
	Fenpropathrin	78.7	84.9	87.1		2.54
	Fipronil	84.6	74.8	101		27.8
	Fipronil Desulfinyl	85.2	57.2	94.1		22.7
	Fipronil Sulfide	94.2				13.8
	Fipronil Sulfone	92.1	56.3	102		27.6
	Fluazifop-P-butyl	86.4	53.7	72.3		29.4
	Fludioxonil	86.3	55.1	69.9		23.7
	Flumioxazin	181	119	184		42.7
	Flutolanil	94.6	68.3	74.6		8.87
	Fluxapyroxad	89.8	63.1	83.8		28.1
	Fonofos	90.9	62.0	74.0		17.7
	Gamma-BHC	86.3	95.9	89.2		7.16
	Gamma-Chlordane	87.1	70.4	76.0		6.84
	Heptachlor	78.7	90.1	80.7		11.0
	Heptachlor Epoxide	85.7	92.0	89.1		3.27
	Hexachlorobenzene	75.9	72.7	68.9		5.36
	Hexazinone	91.9	49.7	91.4		35.3
	Imazalil	90.8	102	101		0.743
	Iprodione	54.7	69.5	81.7		16.2
	Kepone	39.1	24.7	27.0		8.94
	Lambda-Cyhalothrin	110	121	121		0.599
	Loratadine	190	97.0	178		59.1
	Malathion	87.1	57.7	77.9		29.7
	Metalaxyl	80.5	49.9	53.2		6.39
	Methoprene	70.9	69.5	79.4		13.3
	Methoxychlor	77.2	77.9	78.5		0.731
	Metolachlor	96.0	65.2	88.6		30.5
	Metribuzin	88.2	65.3	104		46.2
	Mevinphos	83.1	55.1	87.7		45.7
	MGK-264	81.5	78.0	82.2		5.26
	Mirex	70.1	54.0	56.5		4.52
	Molinate	51.9	41.6	53.9		25.6
	Myclobutanil	82.5	68.5	96.2		33.6
	Naled	43.2	27.6	42.9		43.3
	Napropamide	86.6	55.4	58.1		4.63
	Norflurazon	85.7	64.5	91.1		34.2
	Oxadiazon	79.3				25.2
	Oxychlordane	85.3	92.4	95.5		3.22
	Oxyfluorfen	104	107	139		26.7
	Parathion Ethyl	91.9	60.6	91.2		40.3
	Parathion Methyl	93.0	59.9	79.2		27.8
	Pendimethalin	90.8	80.4	104		25.3
	Permethrin	94.0	80.1	73.4		8.73
	Phenothrin	67.9	71.8	72.9		1.39
	Phenytol	31.7	31.5	37.6		17.8
	Phorate	88.2	69.1	90.4		26.8
	Piperonyl Butoxide	92.3	94.4	95.1		0.737
	Prallethrin	76.7	66.0	70.4		6.37
	Prodimamine	87.9	27.9	36.9		27.8
	Prometon	114	44.1	48.1		8.68

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Prometryn	119	84.9	100		16.6
	Pronamide	96.7	82.2	101		19.6
	Propanil	97.9	87.1	99.0		12.8
	Propargite	76.2	34.0	38.5		12.3
	Propiconazole	88.6	59.5	69.9		16.0
	Pyraflufen Ethyl	93.9	72.8	91.4		22.6
	Pyridaben	128	60.0	81.2		20.0
	Pyriproxyfen	108	57.6	81.2		34.0
	Simazine	86.4	81.5	56.3		36.6
	Stirophos	61.5	55.0	46.4		17.0
	Sulfentrazone	78.8				26.2
	Tau-Fluvalinate	106	104	107		2.27
	Tebuconazole	62.0	42.8	41.5		3.06
	Terbufos	89.0	97.9	76.6		24.3
	Terbuthylazine	84.9	81.5	66.4		20.4
	Tetramethrin	82.2	85.8	84.5		1.55
	Thiobencarb	71.0	81.9	68.6		17.6
	Trans-Nonachlor	78.8	78.7	76.4		3.01
	Triadimefon	78.6	91.2	71.5		24.2
	Triclosan Methyl	83.2	94.7	82.0		14.4
EPA 8276	Trifluralin	72.1	69.4	67.9		2.16
	Chlordane	56.3	54.4	59.6		9.18
	Toxaphene	58.8	27.3	37.6		16.0
EPA 8321B	2,4-D	103	97.4	104		5.29
	2,4,5-T	95.1	94.4	104		9.54
	3-Hydroxycarbofuran	71.4	65.7	84.1		24.6
	Acesulfame K	133	137	138		0.880
	Acetaminophen	87.0	86.3	83.3		3.48
	Acetamiprid	74.5	78.8	84.7		7.26
	Afidopyropen	68.2	61.3	69.1		11.9
	Aldicarb	50.5	44.1	51.5		15.5
	Aldicarb Sulfone	84.5	66.4	79.8		18.4
	Aldicarb Sulfoxide	87.1	31.7	34.6		8.63
	AMPA	150	121	120		0.482
	Bentazon	102	99.4	103		3.19
	Benzovindiflupyr	88.9	89.7	94.5		5.20
	Carbamazepine	73.1	66.9	69.6		3.95
	Carbaryl	40.9	41.6	52.6		23.3
	Carbofuran	65.9	47.9	57.7		18.6
	Clothianidin	90.6	109	110		1.70
	Dinotefuran	91.2	93.8	83.2		12.0
	Diuron	67.0	64.2	29.9		72.9
	Endothall	98.7	105	103		1.62
	Fenuron	92.4	79.7	77.0		3.46
	Fluridone	105	101	104		2.38
	Glufosinate	101	92.6	91.4		1.24
	Glyphosate	110	103	98.6		4.62
	Hydrocodone	93.1	87.1	87.0		0.208
	Ibuprofen	75.8	79.0	79.6		0.751
	Imazapyr	94.2	105	108		2.44
	Imidacloprid	85.9	117	119		1.68
	Linuron	90.2	64.2	67.3		4.66
	Mandestrobin	95.8	88.5	93.7		5.67
	MCPP	116	124	127		3.08

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8321B	Methiocarb	59.6	43.9	56.9		25.9
	Methomyl	80.0	59.9	73.8		20.7
	Naproxen	87.8	81.3	102		22.4
	Oxamyl	82.9	62.1	74.4		18.0
	Primidone	73.0	79.1	71.4		10.2
	Propoxur	69.4	53.0	61.1		14.2
	Pyraclostrobin	90.8	88.8	88.6		0.237
	Silvex	113	122	123		0.757
	Sucralose	87.8	86.2	79.1		7.26
	Thiamethoxam	87.2	88.2	91.3		3.46
	Tolfenpyrad	60.2	59.6	61.6		3.27
	Triclopyr	103	110	113		2.05

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2420524, 2420525, 2420526, 2420527
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2420539, 2420540, 2420541, 2420542
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2420543, 2420544, 2420545, 2420546
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2420539, 2420540, 2420541, 2420542
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2420529, 2420530, 2420531, 2420532
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2420533, 2420534, 2420535, 2420536

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	06/29/2023			06/29/2023 14:11	Khloe J Berg	2420524
	06/29/2023			06/29/2023 14:13	Khloe J Berg	2420525
	06/29/2023			06/29/2023 14:14	Khloe J Berg	2420526
	06/29/2023			06/29/2023 14:17	Khloe J Berg	2420527
EPA 8270E	06/29/2023	06/29/2023 13:40	Fe-Val Siddell	06/30/2023 18:19	Vandana T. Nagar	2420543
	06/29/2023	06/29/2023 13:40	Fe-Val Siddell	06/30/2023 18:46	Vandana T. Nagar	2420544
	06/29/2023	06/29/2023 13:40	Fe-Val Siddell	06/30/2023 19:13	Vandana T. Nagar	2420545
	06/29/2023	06/29/2023 13:40	Fe-Val Siddell	06/30/2023 19:40	Vandana T. Nagar	2420546
	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/07/2023 21:06	Michael Poppell	2420539
	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/07/2023 21:37	Michael Poppell	2420540
	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/07/2023 22:09	Michael Poppell	2420541
EPA 8276	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/07/2023 22:40	Michael Poppell	2420542
	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/08/2023 10:36	Arthur Maknenko	2420539
	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/08/2023 11:34	Arthur Maknenko	2420540
	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/08/2023 12:31	Arthur Maknenko	2420541
	06/29/2023	07/05/2023 08:00	Rasheda Ghaffari	07/08/2023 13:28	Arthur Maknenko	2420542
EPA 8321B	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 01:32	Tae K Lee	2420533
	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 01:46	Tae K Lee	2420534
	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 02:00	Tae K Lee	2420535
	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 02:14	Tae K Lee	2420536
	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 22:31	Tae K Lee	2420533
	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 22:45	Tae K Lee	2420534
	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 22:58	Tae K Lee	2420535
	06/29/2023	06/29/2023 16:00	Hana Lee	07/01/2023 23:11	Tae K Lee	2420536
	06/29/2023	06/29/2023 16:00	Hana Lee	07/02/2023 05:04	Tae K Lee	2420534
	06/29/2023	06/29/2023 16:00	Hana Lee	07/02/2023 05:18	Tae K Lee	2420535
	06/29/2023	06/29/2023 16:00	Hana Lee	07/02/2023 08:21	Tae K Lee	2420533
	06/29/2023	06/29/2023 16:00	Hana Lee	07/02/2023 08:34	Tae K Lee	2420536
	06/29/2023	06/30/2023 09:00	Hoor Shaik	07/01/2023 06:20	Juyoung Kim	2420533
	06/29/2023	06/30/2023 09:00	Hoor Shaik	07/01/2023 06:39	Juyoung Kim	2420534
	06/29/2023	06/30/2023 09:00	Hoor Shaik	07/01/2023 06:57	Juyoung Kim	2420535
	06/29/2023	06/30/2023 09:00	Hoor Shaik	07/01/2023 07:16	Juyoung Kim	2420536
	06/29/2023	07/05/2023 10:00	Hoor Shaik	07/07/2023 07:41	Juyoung Kim	2420529
	06/29/2023	07/05/2023 10:00	Hoor Shaik	07/07/2023 08:00	Juyoung Kim	2420530
	06/29/2023	07/05/2023 10:00	Hoor Shaik	07/07/2023 08:19	Juyoung Kim	2420531
	06/29/2023	07/05/2023 10:00	Hoor Shaik	07/07/2023 08:37	Juyoung Kim	2420532