

Chemical Analysis Report

SE-DIST-2022-06-29-02

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

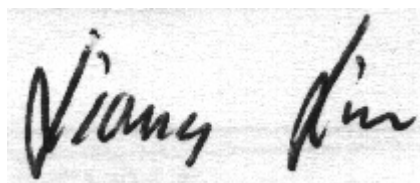
Event Description: **Vero Beach**
Request ID: **RQ-2022-06-13-51**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 19-JUL-2022 14:08

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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 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: North Canal @US1

Collection Date/Time: 06/28/2022 08:50

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337996	EPA 8321B	Aldicarb	0.020	U	ug/L	P416027	
		Aldicarb Sulfone	0.0020	U	ug/L	P416027	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P416027	
		Carbaryl	0.0020	U	ug/L	P416027	
		Carbofuran	0.0020	U	ug/L	P416027	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P416027	
		Methiocarb	0.0020	U	ug/L	P416027	
		Methomyl	0.0020	U	ug/L	P416027	
		Oxamyl	0.0020	U	ug/L	P416027	
		Propoxur	0.0020	U	ug/L	P416027	
2337997		2,4-D	0.052		ug/L	P415930	
		Acesulfame K	0.10	U	ug/L	P415969	
		2,4,5-T	0.0040	U	ug/L	P415930	
		AMPA	1.1		ug/L	P415969	MS
		Acetaminophen	0.0080	U	ug/L	P415930	
		Acetamiprid	0.0020	U	ug/L	P415930	
		Endothall	0.25	U	ug/L	P415969	
		Glufosinate	0.10	U	ug/L	P415969	MS
		Glyphosate	1.6		ug/L	P415969	MS
		Afidopyropen	0.0020	U	ug/L	P415930	
		Bentazon	0.032		ug/L	P415930	
		Sucralose	0.87		ug/L	P415969	
		Benzovindiflupyr	0.0020	U	ug/L	P415930	
		Carbamazepine	0.0024	I	ug/L	P415930	
		Clothianidin	0.0054	I	ug/L	P415930	
		Dinotefuran	0.0042	I	ug/L	P415930	
		Diuron	0.0047	I	ug/L	P415930	
		Fenuron	0.032	U	ug/L	P415930	
		Fluridone	0.029		ug/L	P415930	
		Imazapyr	0.089		ug/L	P415930	
		Hydrocodone	0.0020	U	ug/L	P415930	
		Ibuprofen	0.080	U	ug/L	P415930	
		Imidacloprid	0.0047	I	ug/L	P415930	
		Linuron	0.0040	U	ug/L	P415930	
		Mandestrobin	0.0020	U	ug/L	P415930	
		MCPP	0.0040	U	ug/L	P415930	
		Naproxen	0.0080	U	ug/L	P415930	MS, RPD
		Primidone	0.012	I	ug/L	P415930	
		Pyraclostrobin	0.0020	U	ug/L	P415930	
		Silvex	0.0040	U	ug/L	P415930	
		Thiamethoxam	0.018		ug/L	P415930	
		Tolfenpyrad	0.0020	U	ug/L	P415930	
		Triclopyr	0.0040	U	ug/L	P415930	
2338004	EPA 8270E	Aldrin	0.68	U	ng/L	P416088	

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2338004	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P416088	
		Alpha-Chlordane	0.21	U	ng/L	P416088	
		PCB-1016	2.1	UJ	ng/L	P416088	SUR
		Beta-BHC	0.10	U	ng/L	P416088	
		PCB-1221	2.1	UJ	ng/L	P416088	SUR
		Beta-Cyfluthrin	1.3	U	ng/L	P416088	
		PCB-1232	2.1	UJ	ng/L	P416088	SUR
		Bifenthrin	0.52	U	ng/L	P416088	
		PCB-1242	2.1	UJ	ng/L	P416088	SUR
		PCB-1248	2.1	UJ	ng/L	P416088	SUR
		Chlorothalonil	1.3	U	ng/L	P416088	
		PCB-1254	2.1	UJ	ng/L	P416088	SUR
		Cis-Nonachlor	0.21	U	ng/L	P416088	
		PCB-1260	2.1	UJ	ng/L	P416088	SUR
		Cypermethrin	1.6	U	ng/L	P416088	
		Dacthal	0.16	U	ng/L	P416088	
		DDD-p,p'	0.26	U	ng/L	P416088	
		DDE-p,p'	0.21	U	ng/L	P416088	
		DDT-p,p'	0.46	I	ng/L	P416088	
		Delta-BHC	0.42	U	ng/L	P416088	
		Deltamethrin	1.3	U	ng/L	P416088	
		Dichlobenil	0.26	U	ng/L	P416088	
		Dicofol	1.3	U	ng/L	P416088	
		Dieldrin	0.42	U	ng/L	P416088	
		Endosulfan I	0.42	U	ng/L	P416088	
		Endosulfan II	0.42	U	ng/L	P416088	
		Endosulfan Sulfate	0.31	U	ng/L	P416088	
		Endrin	0.42	U	ng/L	P416088	
		Endrin Aldehyde	0.78	U	ng/L	P416088	
		Endrin Ketone	0.42	U	ng/L	P416088	
		Esfenvalerate	0.78	U	ng/L	P416088	
		Ethalfuralin	0.16	U	ng/L	P416088	
		Fenpropathrin	0.26	U	ng/L	P416088	
		Gamma-BHC	0.13	U	ng/L	P416088	
		Gamma-Chlordane	0.21	U	ng/L	P416088	
		Heptachlor	0.21	U	ng/L	P416088	
		Heptachlor Epoxide	0.26	U	ng/L	P416088	
		Hexachlorobenzene**	1.0	U	ng/L	P416088	
		Kepone	5.2	UJ	ng/L	P416088	CCV
		Lambda-Cyhalothrin	0.78	U	ng/L	P416088	
		Methoprene	0.78	U	ng/L	P416088	
		Methoxychlor	0.31	U	ng/L	P416088	
		MGK-264	0.21	U	ng/L	P416088	
		Mirex	0.73	U	ng/L	P416088	
		Oxychlordane	0.31	U	ng/L	P416088	

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2338004	EPA 8270E	Permethrin	2.8	I	ng/L	P416088	
		Phenothrin	0.94	U	ng/L	P416088	
		Piperonyl Butoxide	0.87		ng/L	P416088	
		Prallethrin	2.1	U	ng/L	P416088	
		Tau-Fluvalinate	0.26	U	ng/L	P416088	
		Tetramethrin	0.78	U	ng/L	P416088	
		Trans-Nonachlor	0.21	U	ng/L	P416088	
		Triclosan Methyl	0.16	U	ng/L	P416088	
		Trifluralin	0.21	U	ng/L	P416088	
	EPA 8276	Chlordane	3.1	I	ng/L	P416088	
		Toxaphene	16	U	ng/L	P416088	
2338005	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P415865	
		Acetochlor	0.24	U	ng/L	P415865	
		Octinoxate**	19	U	ng/L	P415865	RPD
		Alachlor	0.24	U	ng/L	P415865	
		Avobenzone**	97	U	ng/L	P415865	RPD
		Ametryn	0.58	U	ng/L	P415865	
		Atrazine	9.4		ng/L	P415865	
		PBDE-47**	3.9	U	ng/L	P415865	RPD
		Atrazine Desethyl	1.5	U	ng/L	P415865	
		PBDE-99**	4.8	U	ng/L	P415865	RPD
		Azinphos Methyl	1.9	U	ng/L	P415865	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P415865	
		Azoxystrobin	0.48	U	ng/L	P415865	
		Bromacil	29		ng/L	P415865	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P415865	RPD
		Butylate	0.39	U	ng/L	P415865	
		Caffeine**	7.3	U	ng/L	P415865	
		Carbophenothion	0.19	U	ng/L	P415865	
		Carfentrazone Ethyl	0.097	U	ng/L	P415865	
		Chlorfenapyr	0.17	U	ng/L	P415865	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415865	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415865	
		Coumaphos	0.48	U	ng/L	P415865	
		Cyanazine	3.1	U	ng/L	P415865	
		Cyprodinil	0.097	U	ng/L	P415865	
		Demeton	1.5	U	ng/L	P415865	
		Diazinon	0.12	U	ng/L	P415865	
		Difenoconazole	0.58	U	ng/L	P415865	
		Dimethenamid	0.097	UJ	ng/L	P415865	LCS
		Dimethomorph	0.17	U	ng/L	P415865	
		Disulfoton	0.48	U	ng/L	P415865	
		Dithiopyr	0.17	U	ng/L	P415865	
		EPTC	1.2	U	ng/L	P415865	

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2338005	EPA 8270E	Ethion	0.15	UJ	ng/L	P415865	LCS
		Ethoprop	0.097	U	ng/L	P415865	
		Etridiazole	0.15	U	ng/L	P415865	
		Fenamiphos	0.48	U	ng/L	P415865	
		Fenbuconazole	0.48	I	ng/L	P415865	
		Fipronil	0.24	U	ng/L	P415865	
		Fipronil DesulfinyI**	0.37	I	ng/L	P415865	
		Fipronil Sulfide	0.28	I	ng/L	P415865	
		Fipronil Sulfone	0.58		ng/L	P415865	
		Fluazifop-P-butyl	0.097	U	ng/L	P415865	
		Fludioxonil	0.18	I	ng/L	P415865	
		Flumioxazin	1.7	U	ng/L	P415865	
		Flutolanil	0.36	I	ng/L	P415865	
		Fluxapyroxad	0.79		ng/L	P415865	
		Fonofos	0.19	U	ng/L	P415865	
		Hexazinone	0.56	I	ng/L	P415865	
		Imazalil	0.73	U	ng/L	P415865	
		Iprodione	0.58	U	ng/L	P415865	MS
		Loratadine**	0.097	U	ng/L	P415865	
		Malathion	0.34	U	ng/L	P415865	
		Metalaxyl	2.5	I	ng/L	P415865	
		Metolachlor	10		ng/L	P415865	
		Metribuzin	2.4	U	ng/L	P415865	
		Mevinphos	1.0	U	ng/L	P415865	
		Molinate	0.29	U	ng/L	P415865	
		Myclobutanil	0.24	U	ng/L	P415865	
		Naled	1.5	U	ng/L	P415865	
		Napropamide	0.39	U	ng/L	P415865	
		Norflurazon	40		ng/L	P415865	
		Oxadiazon	2.0		ng/L	P415865	
		Oxyfluorfen	0.15	U	ng/L	P415865	
		Parathion Ethyl	0.24	U	ng/L	P415865	
		Parathion Methyl	0.53	U	ng/L	P415865	
		Pendimethalin	0.97	U	ng/L	P415865	
		Phenytain**	3.4	U	ng/L	P415865	MS
		Phorate	0.51	U	ng/L	P415865	
		Prodiamine	0.21	I	ng/L	P415865	
		Prometon	0.87	U	ng/L	P415865	
		Prometryn	0.19	U	ng/L	P415865	
		Pronamide	0.15	U	ng/L	P415865	
		Propanil	0.12	U	ng/L	P415865	
		Propargite	1.5	U	ng/L	P415865	
		Propiconazole	1.4	I	ng/L	P415865	
		Pyraflufen Ethyl	0.24	U	ng/L	P415865	
		Pyridaben	0.44	U	ng/L	P415865	

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2338005	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P415865	RPD
		Simazine	0.48	U	ng/L	P415865	
		Stirophos	0.12	U	ng/L	P415865	
		Sulfentrazone	85		ng/L	P415865	MS
		Tebuconazole	0.67	I	ng/L	P415865	
		Terbufos	0.097	U	ng/L	P415865	
		Terbutylazine	0.41	U	ng/L	P415865	
		Thiobencarb	0.58	U	ng/L	P415865	
		Triadimefon	0.24	U	ng/L	P415865	

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

Sample Location: FB

Collection Date/Time: 06/28/2022 08:55

Field ID: FB_06282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337998	EPA 8321B	2,4-D	0.0020	U	ug/L	P415930	
		Acesulfame K	0.10	U	ug/L	P415969	
		2,4,5-T	0.0040	U	ug/L	P415930	
		AMPA	0.10	U	ug/L	P415969	MS
		Acetaminophen	0.0080	U	ug/L	P415930	
		Acetamiprid	0.0020	U	ug/L	P415930	
		Endothall	0.25	U	ug/L	P415969	
		Glufosinate	0.10	U	ug/L	P415969	MS
		Glyphosate	0.10	U	ug/L	P415969	MS
		Afidopyropen	0.0020	U	ug/L	P415930	
		Bentazon	8.0E-04	U	ug/L	P415930	
		Sucralose	0.010	U	ug/L	P415969	
		Benzovindiflupyr	0.0020	U	ug/L	P415930	
		Carbamazepine	8.0E-04	U	ug/L	P415930	
		Clothianidin	0.0020	U	ug/L	P415930	
		Dinotefuran	0.0020	U	ug/L	P415930	
		Diuron	0.0020	U	ug/L	P415930	
		Fenuron	0.032	U	ug/L	P415930	
		Fluridone	8.0E-04	U	ug/L	P415930	
		Imazapyr	0.0040	U	ug/L	P415930	
		Hydrocodone	0.0020	U	ug/L	P415930	
		Ibuprofen	0.080	U	ug/L	P415930	
		Imidacloprid	0.0020	U	ug/L	P415930	
		Linuron	0.0040	U	ug/L	P415930	
		Mandestrobin	0.0020	U	ug/L	P415930	
		MCPP	0.0040	U	ug/L	P415930	
		Naproxen	0.0080	U	ug/L	P415930	MS, RPD
		Primidone	0.0040	U	ug/L	P415930	
		Pyraclostrobin	0.0020	U	ug/L	P415930	
		Silvex	0.0040	U	ug/L	P415930	
		Thiamethoxam	0.0020	U	ug/L	P415930	
		Tolfenpyrad	0.0020	U	ug/L	P415930	
		Triclopyr	0.0040	U	ug/L	P415930	
2338006	EPA 8270E	Aldrin	0.69	U	ng/L	P416088	
		Alpha-BHC	0.11	U	ng/L	P416088	
		Alpha-Chlordane	0.21	U	ng/L	P416088	
		PCB-1016	2.1	U	ng/L	P416088	
		Beta-BHC	0.11	U	ng/L	P416088	
		PCB-1221	2.1	U	ng/L	P416088	
		Beta-Cyfluthrin	1.3	U	ng/L	P416088	
		PCB-1232	2.1	U	ng/L	P416088	
		Bifenthrin	0.53	U	ng/L	P416088	
		PCB-1242	2.1	U	ng/L	P416088	
		PCB-1248	2.1	U	ng/L	P416088	

Field ID: FB_06282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2338006	EPA 8270E	Chlorothalonil	1.3	U	ng/L	P416088	
		PCB-1254	2.1	U	ng/L	P416088	
		Cis-Nonachlor	0.21	U	ng/L	P416088	
		PCB-1260	2.1	U	ng/L	P416088	
		Cypermethrin	1.6	U	ng/L	P416088	
		Dacthal	0.16	U	ng/L	P416088	
		DDD-p,p'	0.27	U	ng/L	P416088	
		DDE-p,p'	0.21	U	ng/L	P416088	
		DDT-p,p'	0.27	U	ng/L	P416088	
		Delta-BHC	0.42	U	ng/L	P416088	
		Deltamethrin	1.3	U	ng/L	P416088	
		Dichlobenil	0.27	U	ng/L	P416088	
		Dicofol	1.3	U	ng/L	P416088	
		Dieldrin	0.42	U	ng/L	P416088	
		Endosulfan I	0.42	U	ng/L	P416088	
		Endosulfan II	0.42	U	ng/L	P416088	
		Endosulfan Sulfate	0.32	U	ng/L	P416088	
		Endrin	0.42	U	ng/L	P416088	
		Endrin Aldehyde	0.80	U	ng/L	P416088	
		Endrin Ketone	0.42	U	ng/L	P416088	
		Esfenvalerate	0.80	U	ng/L	P416088	
		Ethalfuralin	0.16	U	ng/L	P416088	
		Fenpropathrin	0.27	U	ng/L	P416088	
		Gamma-BHC	0.13	U	ng/L	P416088	
		Gamma-Chlordane	0.21	U	ng/L	P416088	
		Heptachlor	0.21	U	ng/L	P416088	
		Heptachlor Epoxide	0.27	U	ng/L	P416088	
		Hexachlorobenzene**	1.1	U	ng/L	P416088	
		Kepone	5.3	UJ	ng/L	P416088	CCV
		Lambda-Cyhalothrin	0.80	U	ng/L	P416088	
		Methoprene	0.80	U	ng/L	P416088	
		Methoxychlor	0.32	U	ng/L	P416088	
		MGK-264	0.21	U	ng/L	P416088	
		Mirex	0.74	U	ng/L	P416088	
		Oxychlordane	0.32	U	ng/L	P416088	
		Permethrin	1.7	U	ng/L	P416088	
		Phenothrin	0.96	U	ng/L	P416088	
		Piperonyl Butoxide	0.16	U	ng/L	P416088	
		Prallethrin	2.1	U	ng/L	P416088	
		Tau-Fluvalinate	0.27	U	ng/L	P416088	
		Tetramethrin	0.80	U	ng/L	P416088	
		Trans-Nonachlor	0.21	U	ng/L	P416088	
		Triclosan Methyl	0.16	U	ng/L	P416088	
		Trifluralin	0.21	U	ng/L	P416088	
	EPA 8276	Chlordane	2.7	U	ng/L	P416088	

Field ID: FB_06282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2338006	EPA 8276	Toxaphene	16	U	ng/L	P416088	
2338007	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P415865	
		Acetochlor	0.24	U	ng/L	P415865	
		Octinoxate**	19	U	ng/L	P415865	RPD
		Alachlor	0.24	U	ng/L	P415865	
		Avobenzone**	97	U	ng/L	P415865	RPD
		Ametryn	0.58	U	ng/L	P415865	
		Atrazine	0.24	U	ng/L	P415865	
		PBDE-47**	3.9	U	ng/L	P415865	RPD
		Atrazine Desethyl	1.5	U	ng/L	P415865	
		PBDE-99**	4.8	U	ng/L	P415865	RPD
		Azinphos Methyl	1.9	U	ng/L	P415865	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P415865	
		Azoxystrobin	0.48	U	ng/L	P415865	
		Bromacil	0.48	U	ng/L	P415865	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P415865	RPD
		Butylate	0.39	U	ng/L	P415865	
		Caffeine**	7.3	U	ng/L	P415865	
		Carbophenothion	0.19	U	ng/L	P415865	
		Carfentrazone Ethyl	0.097	U	ng/L	P415865	
		Chlorfenapyr	0.17	U	ng/L	P415865	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415865	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415865	
		Coumaphos	0.48	U	ng/L	P415865	
		Cyanazine	3.1	U	ng/L	P415865	
		Cyprodinil	0.097	U	ng/L	P415865	
		Demeton	1.5	U	ng/L	P415865	
		Diazinon	0.12	U	ng/L	P415865	
		Difenoconazole	0.58	U	ng/L	P415865	
		Dimethenamid	0.097	UJ	ng/L	P415865	LCS
		Dimethomorph	0.17	U	ng/L	P415865	
		Disulfoton	0.48	U	ng/L	P415865	
		Dithiopyr	0.17	U	ng/L	P415865	
		EPTC	1.2	U	ng/L	P415865	
		Ethion	0.15	UJ	ng/L	P415865	LCS
		Ethoprop	0.097	U	ng/L	P415865	
		Etridiazole	0.15	U	ng/L	P415865	
		Fenamiphos	0.48	U	ng/L	P415865	
		Fenbuconazole	0.12	U	ng/L	P415865	
		Fipronil	0.24	U	ng/L	P415865	
		Fipronil Desulfinyl**	0.12	U	ng/L	P415865	
		Fipronil Sulfide	0.15	U	ng/L	P415865	
		Fipronil Sulfone	0.15	U	ng/L	P415865	
		Fluazifop-P-butyl	0.097	U	ng/L	P415865	

Field ID: FB_06282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2338007	EPA 8270E	Fludioxonil	0.12	U	ng/L	P415865	
		Flumioxazin	1.7	U	ng/L	P415865	
		Flutolanil	0.097	U	ng/L	P415865	
		Fluxapyroxad	0.097	U	ng/L	P415865	
		Fonofos	0.19	U	ng/L	P415865	
		Hexazinone	0.48	U	ng/L	P415865	
		Imazalil	0.73	U	ng/L	P415865	
		Iprodione	0.58	U	ng/L	P415865	MS
		Loratadine**	0.097	U	ng/L	P415865	
		Malathion	0.34	U	ng/L	P415865	
		Metalaxyl	0.73	U	ng/L	P415865	
		Metolachlor	0.34	U	ng/L	P415865	
		Metribuzin	2.4	U	ng/L	P415865	
		Mevinphos	1.0	U	ng/L	P415865	
		Molinate	0.29	U	ng/L	P415865	
		Myclobutanil	0.24	U	ng/L	P415865	
		Naled	1.5	U	ng/L	P415865	
		Napropamide	0.39	U	ng/L	P415865	
		Norflurazon	0.48	U	ng/L	P415865	
		Oxadiazon	0.29	U	ng/L	P415865	
		Oxyfluorfen	0.15	U	ng/L	P415865	
		Parathion Ethyl	0.24	U	ng/L	P415865	
		Parathion Methyl	0.53	U	ng/L	P415865	
		Pendimethalin	0.97	U	ng/L	P415865	
		Phenytol**	3.4	U	ng/L	P415865	MS
		Phorate	0.51	U	ng/L	P415865	
		Prodiamine	0.17	U	ng/L	P415865	
		Prometon	0.87	U	ng/L	P415865	
		Prometryn	0.19	U	ng/L	P415865	
		Pronamide	0.15	U	ng/L	P415865	
		Propanil	0.12	U	ng/L	P415865	
		Propargite	1.5	U	ng/L	P415865	
		Propiconazole	0.48	U	ng/L	P415865	
		Pyraflufen Ethyl	0.24	U	ng/L	P415865	
		Pyridaben	0.44	U	ng/L	P415865	
		Pyriproxyfen	0.12	U	ng/L	P415865	RPD
		Simazine	0.48	U	ng/L	P415865	
		Stirophos	0.12	U	ng/L	P415865	
		Sulfentrazone	0.48	U	ng/L	P415865	MS
		Tebuconazole	0.48	U	ng/L	P415865	
		Terbufos	0.097	U	ng/L	P415865	
		Terbuthylazine	0.41	U	ng/L	P415865	
		Thiobencarb	0.58	U	ng/L	P415865	
		Triadimefon	0.24	U	ng/L	P415865	

Field ID: FB_06282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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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. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Vero North Canal @ 66th Ave

Collection Date/Time: 06/28/2022 08:20

Field ID: G5SE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337995	EPA 8321B	Acesulfame K	0.10	U	ug/L	P415969	
		2,4-D	0.016		ug/L	P415930	
		2,4,5-T	0.0040	U	ug/L	P415930	
		AMPA	1.4	J	ug/L	P415969	MS
		Acetaminophen	0.0080	U	ug/L	P415930	
		Endothall	0.25	U	ug/L	P415969	
		Acetamiprid	0.0020	U	ug/L	P415930	
		Glufosinate	0.10	UJ	ug/L	P415969	MS
		Glyphosate	2.2	J	ug/L	P415969	MS
		Afidopyropen	0.0020	U	ug/L	P415930	
		Sucralose	0.099		ug/L	P415969	
		Bentazon	0.024		ug/L	P415930	
		Benzovindiflupyr	0.0020	U	ug/L	P415930	
		Carbamazepine	8.0E-04	U	ug/L	P415930	
		Clothianidin	0.0020	U	ug/L	P415930	
		Dinotefuran	0.0020	U	ug/L	P415930	
		Diuron	0.0020	U	ug/L	P415930	
		Fenuron	0.032	U	ug/L	P415930	
		Fluridone	0.0010	I	ug/L	P415930	
		Imazapyr	0.093		ug/L	P415930	
		Hydrocodone	0.0020	U	ug/L	P415930	
		Ibuprofen	0.080	U	ug/L	P415930	
		Imidacloprid	0.0046	I	ug/L	P415930	
		Linuron	0.0040	U	ug/L	P415930	
		Mandestrobin	0.0020	U	ug/L	P415930	
		MCPP	0.0040	U	ug/L	P415930	
		Naproxen	0.0080	U	ug/L	P415930	MS, RPD
		Primidone	0.0040	U	ug/L	P415930	
		Pyraclostrobin	0.0020	U	ug/L	P415930	
		Silvex	0.0040	U	ug/L	P415930	
		Thiamethoxam	0.0032	I	ug/L	P415930	
		Tolfenpyrad	0.0020	U	ug/L	P415930	
		Triclopyr	0.0040	U	ug/L	P415930	

Ref. Method and Comment:

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415865

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415865

Component	Result	Code	Units
Dithiopyr	0.18	U	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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415865

Component	Result	Code	Units
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415865

Component	Result	Code	Units
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: P416088

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416088

Component	Result	Code	Units
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416088

Component	Result	Code	Units
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: P416088

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: P415930

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P415930

Component	Result	Code	Units
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
MCPPP	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: P415969

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: P416027

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: P415865

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.9		P	50 - 150
Acetochlor	91.0		P	70 - 121
Alachlor	85.1		P	68 - 119
Ametryn	77.7		P	64 - 139
Atrazine	88.7		P	76 - 120
Atrazine Desethyl	64.5		P	44 - 126
Avobenzone	88.9		P	76 - 212
Azinphos Methyl	124		P	43 - 192
Azoxystrobin	114		P	36 - 224
Bromacil	71.1		P	52 - 121
Butylate	51.1		P	28 - 91.0
Caffeine	70.7		P	50 - 134
Carbophenothion	92.4		P	56 - 129
Carfentrazone Ethyl	94.2		P	60 - 141
Chlorfenapyr	76.4		P	56 - 115
Chlorpyrifos Ethyl	79.9		P	60 - 118
Chlorpyrifos Methyl	77.0		P	68 - 119
Coumaphos	80.5		P	18 - 250
Cyanazine	79.7		P	61 - 250
Cyprodinil	77.2		P	55 - 145
Demeton	73.5		P	30 - 159
Diazinon	91.5		P	70 - 123
Difenoconazole	89.3		P	49 - 204
Dimethenamid	58.4		F	64 - 115
Dimethomorph	159		P	12 - 219
Disulfoton	79.1		P	44 - 125
Dithiopyr	84.1		P	64 - 115
EPTC	45.2		P	28 - 86.0
Ethion	28.5		F	33 - 125
Ethoprop	78.9		P	64 - 116
Etridiazole	59.0		P	34 - 91.0
Fenamiphos	71.4		P	12 - 127
Fenbuconazole	87.8		P	59 - 151
Fipronil	85.3		P	67 - 129
Fipronil Desulfinyl	85.0		P	65 - 127
Fipronil Sulfide	64.7		P	61 - 116
Fipronil Sulfone	94.3		P	55 - 117
Fluazifop-P-butyl	92.4		P	62 - 127
Fludioxonil	70.8		P	62 - 128
Flumioxazin	99.2		P	33 - 250
Flutolanil	74.4		P	56 - 127
Fluxapyroxad	63.4		P	45 - 128
Fonofos	68.2		P	62 - 111
Hexazinone	68.2		P	46 - 139
Imazalil	79.9		P	38 - 142
Iprodione	77.3		P	47 - 135
Loratadine	164		P	10 - 244
Malathion	91.4		P	61 - 139
Metalaxyl	86.0		P	10 - 119
Metolachlor	82.9		P	65 - 118
Metribuzin	88.1		P	51 - 250
Mevinphos	71.5		P	53 - 121

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415865

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	59.1		P	42 - 96.0
Myclobutanil	78.8		P	55 - 128
Naled	78.5		P	10 - 98.0
Napropamide	54.1		P	49 - 121
Norflurazon	74.6		P	61 - 126
Octinoxate	86.1		P	30 - 159
Oxadiazon	72.2		P	59 - 116
Oxybenzone	78.6		P	61 - 139
Oxyfluorfen	109		P	64 - 137
Parathion Ethyl	80.5		P	70 - 112
Parathion Methyl	106		P	76 - 133
PBDE-47	84.7		P	50 - 150
PBDE-99	84.9		P	50 - 150
Pendimethalin	90.1		P	52 - 117
Phenytoin	15.7		P	10 - 199
Phorate	74.2		P	48 - 121
Prodiamine	53.2		P	26 - 142
Prometon	64.0		P	43 - 123
Prometryn	74.6		P	66 - 127
Pronamide	95.9		P	75 - 121
Propanil	77.7		P	45 - 150
Propargite	43.3		P	42 - 208
Propiconazole	74.2		P	60 - 125
Pyraflufen Ethyl	82.8		P	70 - 138
Pyridaben	73.1		P	35 - 245
Pyriproxyfen	70.6		P	30 - 149
Simazine	80.3		P	72 - 125
Stirophos	36.7		P	29 - 164
Sulfentrazone	82.2		P	21 - 139
Tebuconazole	30.7		P	10 - 115
Terbufos	91.2		P	60 - 123
Terbuthylazine	89.0		P	72 - 115
Thiobencarb	87.5		P	31 - 139
Tri-o-cresyl Phosphate	82.3		P	50 - 150
Triadimefon	65.6		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P416088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	65.2		P	10 - 93.0
Alpha-BHC	103		P	75 - 106
Alpha-Chlordane	78.6		P	50 - 109
Beta-BHC	121		P	36 - 138
Beta-Cyfluthrin	59.4		P	23 - 167
Bifenthrin	47.2		P	11 - 123
Chlorothalonil	86.6		P	27 - 190
Cis-Nonachlor	67.2		P	40 - 111
Cypermethrin	62.8		P	25 - 155
Dacthal	103		P	72 - 119
DDD-p,p'	74.9		P	47 - 108
DDE-p,p'	83.8		P	48 - 107

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P416088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDT-p,p'	77.5		P	49 - 111
Delta-BHC	124		P	54 - 138
Deltamethrin	59.6		P	22 - 189
Dichlobenil	103		P	32 - 113
Dicofol	74.9		P	50 - 108
Dieldrin	84.6		P	56 - 110
Endosulfan I	87.5		P	60 - 105
Endosulfan II	78.0		P	50 - 120
Endosulfan Sulfate	92.7		P	55 - 121
Endrin	80.7		P	31 - 119
Endrin Aldehyde	73.8		P	36 - 116
Endrin Ketone	103		P	69 - 177
Esfenvalerate	55.0		P	10 - 179
Ethalfuralin	79.7		P	49 - 99.0
Fenpropathrin	67.7		P	35 - 119
Gamma-BHC	111		P	69 - 120
Gamma-Chlordane	73.7		P	45 - 107
Heptachlor	70.8		P	41 - 100
Heptachlor Epoxide	84.4		P	58 - 106
Hexachlorobenzene	80.2		P	39 - 100
Kepone	55.5		P	10 - 191
Lambda-Cyhalothrin	53.4		P	21 - 206
Methoprene	44.8		P	10 - 129
Methoxychlor	89.8		P	61 - 111
MGK-264	91.5		P	20 - 123
Mirex	54.1		P	10 - 182
Oxychlordane	77.3		P	39 - 110
PCB-1016	83.2		P	48 - 112
PCB-1260	88.0		P	44 - 118
Permethrin	72.0		P	26 - 152
Phenothrin	46.5		P	10 - 109
Piperonyl Butoxide	127		P	19 - 147
Prallethrin	78.3		P	14 - 109
Tau-Fluvalinate	43.5		P	16 - 134
Tetramethrin	104		P	10 - 125
Trans-Nonachlor	76.1		P	45 - 107
Triclosan Methyl	84.6		P	60 - 110
Trifluralin	74.6		P	44 - 101

Reference Method: EPA 8276
Batch ID: P416088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	105		P	61 - 116
Toxaphene	90.0		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P415930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	86.8		P	40 - 150
2,4,5-T	56.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P415930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	99.4		P	30 - 150
Acetamiprid	95.3		P	40 - 150
Afidopyropen	70.9		P	30 - 150
Bentazon	79.0		P	30 - 150
Benzovindiflupyr	91.0		P	40 - 150
Carbamazepine	97.9		P	40 - 150
Clothianidin	105		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	85.7		P	40 - 150
Fenuron	107		P	40 - 150
Fluridone	92.9		P	40 - 150
Hydrocodone	99.7		P	40 - 150
Ibuprofen	80.4		P	40 - 150
Imazapyr	96.1		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	101		P	40 - 150
Mandestrobin	97.4		P	40 - 150
MCPP	104		P	40 - 150
Naproxen	72.4		P	40 - 150
Primidone	98.9		P	40 - 150
Pyraclostrobin	80.7		P	40 - 150
Silvex	62.7		P	40 - 150
Thiamethoxam	95.3		P	40 - 150
Tolfenpyrad	49.4		P	30 - 150
Triclopyr	63.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	90.0		P	40 - 150
AMPA	91.3		P	40 - 150
Endothall	96.3		P	40 - 150
Glufosinate	82.5		P	40 - 150
Glyphosate	91.0		P	40 - 150
Sucralose	90.3		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P416027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	75.6		P	40 - 150
Aldicarb	59.0		P	30 - 150
Aldicarb Sulfone	91.1		P	40 - 150
Aldicarb Sulfoxide	90.3		P	40 - 150
Carbaryl	61.0		P	40 - 150
Carbofuran	63.6		P	40 - 150
Methiocarb	72.7		P	40 - 150
Methomyl	80.9		P	40 - 150
Oxamyl	86.5		P	40 - 150
Propoxur	60.6		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337570	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.6	122	P/P	50 - 150
2337570	Acetochlor	92.9	96.2	P/P	65 - 124
2337570	Alachlor	93.6	115	P/P	61 - 121
2337570	Ametryn	95.7	106	P/P	52 - 216
2337570	Atrazine	107	117	P/P	68 - 133
2337570	Atrazine Desethyl	48.0	56.3	P/P	15 - 160
2337570	Avobenzone	78.4	109	P/P	59 - 206
2337570	Azinphos Methyl	97.9	155	P/P	40 - 292
2337570	Azoxystrobin	126	126	P/P	12 - 242
2337570	Butylate	57.4	49.4	P/P	14 - 94.0
2337570	Caffeine	71.7	75.0	P/P	10 - 226
2337570	Carbophenothion	109	107	P/P	49 - 122
2337570	Carfentrazone Ethyl	107	101	P/P	53 - 138
2337570	Chlorfenapyr	108	107	P/P	50 - 150
2337570	Chlorpyrifos Ethyl	85.7	96.4	P/P	52 - 122
2337570	Chlorpyrifos Methyl	88.2	90.8	P/P	66 - 117
2337570	Coumaphos	76.3	79.6	P/P	50 - 220
2337570	Cyanazine	83.3	77.9	P/P	43 - 245
2337570	Cyprodinil	98.2	84.3	P/P	50 - 150
2337570	Demeton	104	104	P/P	43 - 188
2337570	Diazinon	87.8	103	P/P	69 - 131
2337570	Dimethenamid	64.4	73.0	P/P	55 - 118
2337570	Dimethomorph	106	102	P/P	50 - 150
2337570	Disulfoton	86.6	92.4	P/P	38 - 141
2337570	Dithiopyr	80.7	80.7	P/P	42 - 116
2337570	EPTC	55.3	53.2	P/P	18 - 85.0
2337570	Ethion	23.6	36.0	P/P	10 - 131
2337570	Ethoprop	93.0	99.9	P/P	65 - 129
2337570	Etridiazole	67.3	62.7	P/P	50 - 150
2337570	Fenamiphos	92.6	94.5	P/P	31 - 137
2337570	Fenbuconazole	81.3	85.0	P/P	57 - 160
2337570	Fipronil	88.8	83.0	P/P	62 - 132
2337570	Fipronil Desulfinyl	83.7	92.6	P/P	57 - 131
2337570	Fipronil Sulfide	90.4	80.4	P/P	15 - 138
2337570	Fipronil Sulfone	123	126	P/P	21 - 134
2337570	Fluazifop-P-butyl	117	129	P/P	54 - 133
2337570	Fludioxonil	89.8	92.4	P/P	58 - 127
2337570	Flumioxazin	88.4	111	P/P	33 - 300
2337570	Flutolanil	95.0	103	P/P	42 - 130
2337570	Fluxapyroxad	81.5	104	P/P	23 - 141
2337570	Fonofos	88.7	100	P/P	58 - 119
2337570	Hexazinone	82.8	91.1	P/P	68 - 172
2337570	Imazalil	185	160	P/P	48 - 283
2337570	Iprodione	131	148	P/F	38 - 140
2337570	Loratadine	99.1	93.5	P/P	50 - 150
2337570	Malathion	103	106	P/P	40 - 137
2337570	Metolachlor	91.7	91.2	P/P	55 - 122
2337570	Metribuzin	105	112	P/P	38 - 187
2337570	Mevinphos	84.8	79.5	P/P	54 - 134
2337570	Molinate	73.6	72.1	P/P	41 - 97.0
2337570	Myclobutanil	96.0	91.6	P/P	56 - 125
2337570	Naled	90.2	91.2	P/P	10 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337570	Napropamide	68.4	56.7	P/P	50 - 150
2337570	Octinoxate	83.3	114	P/P	25 - 150
2337570	Oxadiazon	104	94.6	P/P	40 - 119
2337570	Oxybenzone	81.5	101	P/P	59 - 147
2337570	Oxyfluorfen	119	123	P/P	61 - 153
2337570	Parathion Ethyl	92.5	94.0	P/P	59 - 130
2337570	Parathion Methyl	122	132	P/P	65 - 155
2337570	PBDE-47	78.0	110	P/P	50 - 150
2337570	PBDE-99	75.0	108	P/P	50 - 150
2337570	Pendimethalin	119	115	P/P	49 - 138
2337570	Phenytol	25.3	29.5	F/F	50 - 200
2337570	Phorate	92.8	95.1	P/P	54 - 161
2337570	Prodiamine	62.3	66.7	P/P	33 - 161
2337570	Prometon	79.8	80.2	P/P	48 - 140
2337570	Prometryn	76.4	71.6	P/P	55 - 134
2337570	Pronamide	102	86.4	P/P	66 - 137
2337570	Propanil	76.1	74.4	P/P	50 - 150
2337570	Propargite	50.4	66.2	P/P	50 - 200
2337570	Propiconazole	71.8	71.7	P/P	36 - 150
2337570	Pyraflufen Ethyl	84.2	89.4	P/P	50 - 150
2337570	Pyridaben	73.3	79.5	P/P	50 - 200
2337570	Pyriproxyfen	45.5	85.3	P/P	10 - 165
2337570	Stiropfos	74.4	86.3	P/P	50 - 150
2337570	Sulfentrazone	186	224	F/F	34 - 140
2337570	Tebuconazole	41.4	43.3	P/P	10 - 127
2337570	Terbufos	99.6	110	P/P	59 - 138
2337570	Terbutylazine	93.3	105	P/P	68 - 119
2337570	Thiobencarb	87.7	83.2	P/P	50 - 150
2337570	Tri-o-cresyl Phosphate	81.0	103	P/P	50 - 150
2337570	Triadimefon	63.3	63.8	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P416088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338387	PCB-1016	79.1	89.9	P/P	46 - 111
2338387	PCB-1260	83.3	92.0	P/P	45 - 114
2338479	Aldrin	65.8	63.8	P/P	10 - 89.0
2338479	Alpha-BHC	97.1	104	P/P	71 - 105
2338479	Alpha-Chlordane	87.0	94.1	P/P	43 - 107
2338479	Beta-BHC	111	114	P/P	57 - 152
2338479	Beta-Cyfluthrin	105	115	P/P	29 - 186
2338479	Bifenthrin	85.6	92.4	P/P	19 - 119
2338479	Chlorothalonil	150	153	P/P	10 - 245
2338479	Cis-Nonachlor	86.3	83.8	P/P	36 - 110
2338479	Cypermethrin	103	111	P/P	24 - 169
2338479	Dacthal	103	107	P/P	62 - 115
2338479	DDD-p,p'	88.9	87.5	P/P	36 - 109
2338479	DDE-p,p'	89.1	91.0	P/P	30 - 114
2338479	DDT-p,p'	82.2	88.4	P/P	42 - 108
2338479	Delta-BHC	124	131	P/P	60 - 164
2338479	Deltamethrin	101	106	P/P	10 - 210

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P416088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338479	Dichlobenil	103	101	P/P	23 - 108
2338479	Dicofol	81.2	90.0	P/P	44 - 109
2338479	Dieldrin	92.1	94.2	P/P	37 - 119
2338479	Endosulfan I	96.8	101	P/P	52 - 105
2338479	Endosulfan II	89.9	90.9	P/P	35 - 127
2338479	Endosulfan Sulfate	106	109	P/P	39 - 130
2338479	Endrin	89.3	92.6	P/P	30 - 116
2338479	Endrin Aldehyde	99.9	91.6	P/P	20 - 110
2338479	Endrin Ketone	109	108	P/P	48 - 134
2338479	Esfenvalerate	95.8	107	P/P	10 - 199
2338479	Ethalfuralin	87.7	86.9	P/P	48 - 95.0
2338479	Fenpropathrin	95.0	93.5	P/P	37 - 121
2338479	Gamma-BHC	101	106	P/P	61 - 126
2338479	Gamma-Chlordane	89.5	90.7	P/P	39 - 105
2338479	Heptachlor	74.4	77.5	P/P	38 - 96.0
2338479	Heptachlor Epoxide	90.2	99.0	P/P	42 - 114
2338479	Hexachlorobenzene	84.3	85.0	P/P	39 - 93.0
2338479	Kepone	69.1	71.7	P/P	10 - 215
2338479	Lambda-Cyhalothrin	105	112	P/P	10 - 204
2338479	Methoprene	77.8	80.3	P/P	17 - 108
2338479	Methoxychlor	88.1	95.4	P/P	56 - 115
2338479	MGK-264	104	103	P/P	35 - 120
2338479	Mirex	70.5	75.9	P/P	10 - 178
2338479	Oxychlordane	82.7	89.4	P/P	47 - 91.0
2338479	Permethrin	108	116	P/P	27 - 170
2338479	Phenothrin	84.2	86.4	P/P	10 - 133
2338479	Piperonyl Butoxide	149	144	P/P	23 - 150
2338479	Prallethrin	90.5	86.9	P/P	21 - 113
2338479	Tau-Fluvalinate	88.5	96.8	P/P	16 - 158
2338479	Tetramethrin	126	129	P/P	22 - 132
2338479	Trans-Nonachlor	89.0	93.3	P/P	43 - 102
2338479	Triclosan Methyl	92.9	96.0	P/P	49 - 109
2338479	Trifluralin	81.1	78.0	P/P	48 - 93.0

Reference Method: EPA 8276

Batch ID: P416088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338387	Chlordane	89.5	98.0	P/P	53 - 126
2338387	Toxaphene	96.3	105	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P415930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337897	2,4-D	83.6	79.8	P/P	40 - 150
2337897	2,4,5-T	48.0	49.7	P/P	40 - 150
2337897	Acetaminophen	104	101	P/P	30 - 150
2337897	Acetamiprid	101	101	P/P	40 - 150
2337897	Afidopyropen	70.2	71.8	P/P	30 - 150
2337897	Bentazon	52.1	59.6	P/P	30 - 150
2337897	Benzovindiflupyr	85.7	81.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P415930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337897	Carbamazepine	92.2	89.3	P/P	40 - 150
2337897	Clothianidin	98.1	102	P/P	40 - 150
2337897	Dinotefuran	126	122	P/P	40 - 150
2337897	Diuron	86.8	80.0	P/P	40 - 150
2337897	Fenuron	90.1	92.0	P/P	40 - 150
2337897	Fluridone	79.5	78.1	P/P	40 - 150
2337897	Hydrocodone	96.5	94.3	P/P	40 - 150
2337897	Ibuprofen	76.1	67.2	P/P	40 - 150
2337897	Imazapyr	85.5	82.5	P/P	40 - 150
2337897	Imidacloprid	122	120	P/P	40 - 150
2337897	Linuron	81.6	79.3	P/P	40 - 150
2337897	Mandestrobin	79.8	79.3	P/P	40 - 150
2337897	MCPP	83.7	81.9	P/P	40 - 150
2337897	Naproxen	68.4	38.0	P/F	40 - 150
2337897	Primidone	87.2	89.8	P/P	40 - 150
2337897	Pyraclostrobin	80.6	78.0	P/P	40 - 150
2337897	Silvex	56.1	50.8	P/P	40 - 150
2337897	Thiamethoxam	116	112	P/P	40 - 150
2337897	Tolfenpyrad	47.3	44.5	P/P	30 - 150
2337897	Triclopyr	57.2	59.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P415969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337995	Acesulfame K	70.7	74.9	P/P	40 - 150
2337995	AMPA	37.3	43.6	F/P	40 - 150
2337995	Endothall	117	121	P/P	40 - 150
2337995	Glufosinate	25.5	20.7	F/F	40 - 150
2337995	Glyphosate	39.8	45.5	F/P	40 - 150
2337995	Sucralose	81.6	90.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P416027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337583	3-Hydroxycarbofuran	91.6	84.1	P/P	40 - 150
2337583	Aldicarb	50.1	46.9	P/P	30 - 150
2337583	Aldicarb Sulfone	103	104	P/P	40 - 150
2337583	Aldicarb Sulfoxide	49.4	48.8	P/P	40 - 150
2337583	Carbaryl	49.0	46.0	P/P	40 - 150
2337583	Carbofuran	53.1	54.4	P/P	40 - 150
2337583	Methiocarb	58.1	63.5	P/P	40 - 150
2337583	Methomyl	74.6	73.4	P/P	40 - 150
2337583	Oxamyl	82.1	80.9	P/P	40 - 150
2337583	Propoxur	52.4	53.9	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P415865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337570	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	33.7	Spike	F	0 - 30
2337570	Acetochlor	3.47	Spike	P	0 - 27
2337570	Alachlor	20.7	Spike	P	0 - 27
2337570	Ametryn	9.78	Spike	P	0 - 34
2337570	Atrazine	6.56	Spike	P	0 - 41
2337570	Atrazine Desethyl	15.8	Spike	P	0 - 38
2337570	Avobenzone	32.7	Spike	F	0 - 30
2337570	Azinphos Methyl	45.0	Spike	P	0 - 62
2337570	Azoxystrobin	0.119	Spike	P	0 - 32
2337570	Bromacil	8.50	Spike	P	0 - 30
2337570	Butylate	14.9	Spike	P	0 - 59
2337570	Caffeine	4.51	Spike	P	0 - 60
2337570	Carbophenothion	1.59	Spike	P	0 - 25
2337570	Carfentrazone Ethyl	5.92	Spike	P	0 - 26
2337570	Chlorfenapyr	0.771	Spike	P	0 - 30
2337570	Chlorpyrifos Ethyl	11.8	Spike	P	0 - 27
2337570	Chlorpyrifos Methyl	2.82	Spike	P	0 - 26
2337570	Coumaphos	4.35	Spike	P	0 - 30
2337570	Cyanazine	6.71	Spike	P	0 - 58
2337570	Cyprodinil	15.2	Spike	P	0 - 30
2337570	Demeton	0.277	Spike	P	0 - 25
2337570	Diazinon	15.8	Spike	P	0 - 29
2337570	Difenoconazole	7.19	Spike	P	0 - 25
2337570	Dimethenamid	12.5	Spike	P	0 - 30
2337570	Dimethomorph	3.42	Spike	P	0 - 30
2337570	Disulfoton	6.42	Spike	P	0 - 33
2337570	Dithiopyr	0.0108	Spike	P	0 - 22
2337570	EPTC	3.82	Spike	P	0 - 38
2337570	Ethion	41.6	Spike	P	0 - 79
2337570	Ethoprop	7.07	Spike	P	0 - 23
2337570	Etridiazole	7.02	Spike	P	0 - 30
2337570	Fenamiphos	2.07	Spike	P	0 - 58
2337570	Fenbuconazole	3.99	Spike	P	0 - 37
2337570	Fipronil	6.85	Spike	P	0 - 33
2337570	Fipronil Desulfinyl	10.0	Spike	P	0 - 26
2337570	Fipronil Sulfide	11.7	Spike	P	0 - 37
2337570	Fipronil Sulfone	2.71	Spike	P	0 - 50
2337570	Fluazifop-P-butyl	9.56	Spike	P	0 - 24
2337570	Fludioxonil	2.67	Spike	P	0 - 26
2337570	Flumioxazin	22.7	Spike	P	0 - 37
2337570	Flutolanil	8.03	Spike	P	0 - 26
2337570	Fluxapyroxad	24.1	Spike	P	0 - 34
2337570	Fonofos	12.1	Spike	P	0 - 27
2337570	Hexazinone	9.60	Spike	P	0 - 36
2337570	Imazalil	14.6	Spike	P	0 - 65
2337570	Iprodione	12.4	Spike	P	0 - 33
2337570	Loratadine	5.78	Spike	P	0 - 30
2337570	Malathion	3.06	Spike	P	0 - 44
2337570	Metalaxyl	2.99	Spike	P	0 - 38
2337570	Metolachlor	0.365	Spike	P	0 - 36
2337570	Metribuzin	5.98	Spike	P	0 - 63

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337570	Mevinphos	6.39	Spike	P	0 - 26
2337570	Molinate	2.00	Spike	P	0 - 40
2337570	Myclobutanil	4.78	Spike	P	0 - 21
2337570	Naled	1.14	Spike	P	0 - 26
2337570	Napropamide	18.8	Spike	P	0 - 30
2337570	Norflurazon	12.6	Spike	P	0 - 24
2337570	Octinoxate	30.8	Spike	F	0 - 30
2337570	Oxadiazon	9.79	Spike	P	0 - 27
2337570	Oxybenzone	21.8	Spike	P	0 - 30
2337570	Oxyfluorfen	3.55	Spike	P	0 - 24
2337570	Parathion Ethyl	1.65	Spike	P	0 - 28
2337570	Parathion Methyl	7.75	Spike	P	0 - 27
2337570	PBDE-47	34.2	Spike	F	0 - 30
2337570	PBDE-99	36.4	Spike	F	0 - 30
2337570	Pendimethalin	3.57	Spike	P	0 - 31
2337570	Phenytoin	15.1	Spike	P	0 - 30
2337570	Phorate	2.47	Spike	P	0 - 27
2337570	Prodiamine	6.91	Spike	P	0 - 52
2337570	Prometon	0.572	Spike	P	0 - 31
2337570	Prometryn	6.45	Spike	P	0 - 28
2337570	Pronamide	16.4	Spike	P	0 - 26
2337570	Propanil	2.29	Spike	P	0 - 30
2337570	Propargite	27.1	Spike	P	0 - 30
2337570	Propiconazole	0.0425	Spike	P	0 - 31
2337570	Pyraflufen Ethyl	5.97	Spike	P	0 - 30
2337570	Pyridaben	8.11	Spike	P	0 - 30
2337570	Pyriproxyfen	60.9	Spike	F	0 - 50
2337570	Simazine	6.40	Spike	P	0 - 29
2337570	Stirophos	14.8	Spike	P	0 - 30
2337570	Sulfentrazone	14.2	Spike	P	0 - 33
2337570	Tebuconazole	4.58	Spike	P	0 - 44
2337570	Terbufos	9.66	Spike	P	0 - 29
2337570	Terbuthylazine	11.4	Spike	P	0 - 27
2337570	Thiobencarb	5.16	Spike	P	0 - 30
2337570	Tri-o-cresyl Phosphate	24.1	Spike	P	0 - 30
2337570	Triadimefon	0.818	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P416088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338387	PCB-1016	12.7	Spike	P	0 - 32
2338387	PCB-1260	9.88	Spike	P	0 - 31
2338479	Aldrin	3.08	Spike	P	0 - 37
2338479	Alpha-BHC	7.30	Spike	P	0 - 16
2338479	Alpha-Chlordane	7.86	Spike	P	0 - 28
2338479	Beta-BHC	1.93	Spike	P	0 - 32
2338479	Beta-Cyfluthrin	9.94	Spike	P	0 - 41
2338479	Bifenthrin	7.65	Spike	P	0 - 36
2338479	Chlorothalonil	1.73	Spike	P	0 - 54

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P416088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338479	Cis-Nonachlor	2.94	Spike	P	0 - 33
2338479	Cypermethrin	7.50	Spike	P	0 - 38
2338479	Dacthal	3.96	Spike	P	0 - 23
2338479	DDD-p,p'	1.52	Spike	P	0 - 35
2338479	DDE-p,p'	2.08	Spike	P	0 - 27
2338479	DDT-p,p'	6.80	Spike	P	0 - 31
2338479	Delta-BHC	5.21	Spike	P	0 - 30
2338479	Deltamethrin	4.52	Spike	P	0 - 76
2338479	Dichlobenil	1.53	Spike	P	0 - 33
2338479	Dicofol	10.3	Spike	P	0 - 24
2338479	Dieldrin	2.23	Spike	P	0 - 35
2338479	Endosulfan I	4.66	Spike	P	0 - 25
2338479	Endosulfan II	1.08	Spike	P	0 - 31
2338479	Endosulfan Sulfate	2.84	Spike	P	0 - 38
2338479	Endrin	3.69	Spike	P	0 - 53
2338479	Endrin Aldehyde	8.64	Spike	P	0 - 81
2338479	Endrin Ketone	1.48	Spike	P	0 - 33
2338479	Esfenvalerate	11.4	Spike	P	0 - 46
2338479	Ethalfuralin	0.861	Spike	P	0 - 22
2338479	Fenpropathrin	1.58	Spike	P	0 - 29
2338479	Gamma-BHC	5.09	Spike	P	0 - 17
2338479	Gamma-Chlordane	1.32	Spike	P	0 - 28
2338479	Heptachlor	4.15	Spike	P	0 - 28
2338479	Heptachlor Epoxide	9.30	Spike	P	0 - 23
2338479	Hexachlorobenzene	0.828	Spike	P	0 - 22
2338479	Kepone	3.70	Spike	P	0 - 61
2338479	Lambda-Cyhalothrin	6.76	Spike	P	0 - 52
2338479	Methoprene	3.19	Spike	P	0 - 38
2338479	Methoxychlor	7.97	Spike	P	0 - 29
2338479	MGK-264	1.08	Spike	P	0 - 41
2338479	Mirex	7.39	Spike	P	0 - 39
2338479	Oxychlordane	7.81	Spike	P	0 - 33
2338479	Permethrin	7.16	Spike	P	0 - 39
2338479	Phenothrin	2.59	Spike	P	0 - 52
2338479	Piperonyl Butoxide	3.60	Spike	P	0 - 91
2338479	Prallethrin	4.00	Spike	P	0 - 34
2338479	Tau-Fluvalinate	8.92	Spike	P	0 - 41
2338479	Tetramethrin	2.09	Spike	P	0 - 43
2338479	Trans-Nonachlor	4.72	Spike	P	0 - 31
2338479	Triclosan Methyl	3.29	Spike	P	0 - 24
2338479	Trifluralin	3.83	Spike	P	0 - 23

Reference Method: EPA 8276
Batch ID: P416088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338387	Chlordane	8.51	Spike	P	0 - 25
2338387	Toxaphene	9.07	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P415930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337897	2,4-D	4.62	Spike	P	0 - 30
2337897	2,4,5-T	3.53	Spike	P	0 - 30
2337897	Acetaminophen	3.12	Spike	P	0 - 30
2337897	Acetamiprid	0.520	Spike	P	0 - 30
2337897	Afidopyropen	2.21	Spike	P	0 - 30
2337897	Bentazon	13.4	Spike	P	0 - 30
2337897	Benzovindiflupyr	4.67	Spike	P	0 - 30
2337897	Carbamazepine	3.20	Spike	P	0 - 30
2337897	Clothianidin	3.67	Spike	P	0 - 30
2337897	Dinotefuran	2.87	Spike	P	0 - 30
2337897	Diuron	8.21	Spike	P	0 - 30
2337897	Fenuron	2.15	Spike	P	0 - 30
2337897	Fluridone	1.84	Spike	P	0 - 30
2337897	Hydrocodone	2.33	Spike	P	0 - 30
2337897	Ibuprofen	12.4	Spike	P	0 - 30
2337897	Imazapyr	3.57	Spike	P	0 - 30
2337897	Imidacloprid	1.36	Spike	P	0 - 30
2337897	Linuron	2.87	Spike	P	0 - 30
2337897	Mandestrobin	0.610	Spike	P	0 - 30
2337897	MCP	2.22	Spike	P	0 - 30
2337897	Naproxen	57.1	Spike	F	0 - 30
2337897	Primidone	3.00	Spike	P	0 - 30
2337897	Pyraclostrobin	3.24	Spike	P	0 - 30
2337897	Silvex	9.81	Spike	P	0 - 30
2337897	Thiamethoxam	3.26	Spike	P	0 - 30
2337897	Tolfenpyrad	6.03	Spike	P	0 - 30
2337897	Triclopyr	3.58	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P415969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337995	Acesulfame K	5.65	Spike	P	0 - 30
2337995	AMPA	6.52	Spike	P	0 - 30
2337995	Endothall	3.24	Spike	P	0 - 30
2337995	Glufosinate	20.7	Spike	P	0 - 30
2337995	Glyphosate	4.33	Spike	P	0 - 30
2337995	Sucralose	9.99	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P416027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337583	3-Hydroxycarbofuran	8.50	Spike	P	0 - 30
2337583	Aldicarb	6.48	Spike	P	0 - 30
2337583	Aldicarb Sulfone	1.61	Spike	P	0 - 30
2337583	Aldicarb Sulfoxide	1.32	Spike	P	0 - 30
2337583	Carbaryl	6.27	Spike	P	0 - 30
2337583	Carbofuran	2.46	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P416027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337583	Methiocarb	8.90	Spike	P	0 - 30
2337583	Methomyl	1.57	Spike	P	0 - 30
2337583	Oxamyl	1.50	Spike	P	0 - 30
2337583	Propoxur	2.85	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2337995
Field Sample ID: G5SE0069

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	64.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.3	P	30 - 160
EPA 8321B	Diuron-d6	57.5	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	47.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.3	P	30 - 160
EPA 8321B	Primidone-d5	91.4	P	30 - 160
EPA 8321B	Sucralose-d6	91.9	P	30 - 160

Lab Sample ID: 2337996
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	43.9	P	30 - 160

Lab Sample ID: 2337997
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	65.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.4	P	30 - 160
EPA 8321B	Diuron-d6	69.0	P	30 - 160
EPA 8321B	Endothall-d6	93.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	57.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.1	P	30 - 160
EPA 8321B	Primidone-d5	90.3	P	30 - 160
EPA 8321B	Sucralose-d6	52.7	P	30 - 160

Lab Sample ID: 2337998
Field Sample ID: FB_06282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	67.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	84.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.2	P	30 - 160
EPA 8321B	Diuron-d6	90.6	P	30 - 160
EPA 8321B	Endothall-d6	89.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.7	P	30 - 160
EPA 8321B	Primidone-d5	80.2	P	30 - 160
EPA 8321B	Sucralose-d6	96.7	P	30 - 160

Lab Sample ID: 2338004
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	137	F	29 - 130
EPA 8270E	Decachlorobiphenyl	57.9	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	89.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	95.0	P	28 - 96.0

Quality Assurance Report Surrogates

Lab Sample ID: 2338004
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	90.7	P	30 - 101
EPA 8276	PCNB	120	P	48 - 121

Lab Sample ID: 2338005
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	51.4	P	20 - 200
EPA 8270E	Simazine-d10	114	P	71 - 140
EPA 8270E	Terbufos-d10	123	P	62 - 131
EPA 8270E	Terphenyl-d14	77.6	P	52 - 141

Lab Sample ID: 2338006
Field Sample ID: FB_06282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	57.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	33.5	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	69.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	67.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	40.1	P	30 - 101
EPA 8276	PCNB	84.2	P	48 - 121

Lab Sample ID: 2338007
Field Sample ID: FB_06282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.9	P	20 - 200
EPA 8270E	Simazine-d10	127	P	71 - 140
EPA 8270E	Terbufos-d10	120	P	62 - 131
EPA 8270E	Terphenyl-d14	107	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113231

Included Lab Sample IDs: 2337995, 2337997, 2337998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.1	111	P/P	50 - 150
2,4,5-T	107	103	P/P	50 - 150
Acetaminophen	102	100	P/P	60 - 160
Acetamiprid	105	103	P/P	50 - 150
Afidopyropen	109	101	P/P	50 - 150
Bentazon	106	103	P/P	50 - 160
Benzovindiflupyr	108	108	P/P	50 - 150
Carbamazepine	106	107	P/P	60 - 150
Clothianidin	103	114	P/P	60 - 150
Dinotefuran	104	99.2	P/P	50 - 150
Diuron	116	110	P/P	60 - 160
Fenuron	102	99.4	P/P	60 - 150
Fluridone	97.4	107	P/P	60 - 160
Hydrocodone	103	104	P/P	60 - 150
Ibuprofen	95.1	93.3	P/P	50 - 160
Imazapyr	87.0	91.2	P/P	50 - 150
Imidacloprid	98.5	93.0	P/P	60 - 150
Linuron	105	126	P/P	60 - 150
Mandestrobin	104	101	P/P	50 - 150
MCPP	105	109	P/P	50 - 150
Naproxen	74.0	114	P/P	50 - 160
Primidone	93.2	98.3	P/P	60 - 150
Pyraclostrobin	102	101	P/P	60 - 150
Silvex	96.5	105	P/P	50 - 150
Thiamethoxam	99.6	97.1	P/P	50 - 150
Tolfenpyrad	96.8	101	P/P	60 - 150
Triclopyr	103	102	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A113256

Included Lab Sample IDs: 2337996

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	98.5	P/P	60 - 150
Aldicarb	94.2	108	P/P	60 - 150
Aldicarb Sulfone	100	104	P/P	50 - 150
Aldicarb Sulfoxide	102	106	P/P	50 - 150
Carbaryl	107	98.6	P/P	60 - 150
Carbofuran	101	107	P/P	50 - 150
Methiocarb	107	102	P/P	50 - 150
Methomyl	99.3	101	P/P	50 - 150
Oxamyl	102	104	P/P	50 - 150
Propoxur	103	97.9	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A113263

Included Lab Sample IDs: 2337995, 2337997, 2337998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.8	103	P/P	60 - 160
Sucralose	91.7	98.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113269

Included Lab Sample IDs: 2337995, 2337997, 2337998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	95.9	97.4	P/P	60 - 160
Endothall	102	85.7	P/P	60 - 160
Glufosinate	73.7	67.9	P/P	60 - 160
Glyphosate	93.1	83.8	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A113353

Included Lab Sample IDs: 2338004, 2338006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	97.3		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113372

Included Lab Sample IDs: 2338005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	89.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113373

Included Lab Sample IDs: 2338005, 2338007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	93.8		P	80 - 120
Ametryn	95.5		P	80 - 120
Atrazine	99.0		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	106		P	80 - 120
Azoxystrobin	97.6		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	85.9		P	80 - 120
Caffeine	100		P	80 - 120
Carbophenothion	105		P	80 - 120
Carfentrazone Ethyl	99.9		P	80 - 120
Chlorfenapyr	116		P	80 - 120
Chlorpyrifos Ethyl	97.2		P	80 - 120
Chlorpyrifos Methyl	103		P	80 - 120
Coumaphos	119		P	80 - 120
Cyanazine	91.7		P	80 - 120
Cyprodinil	88.1		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	94.6		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	99.2		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	99.3		P	80 - 120
EPTC	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113373

Included Lab Sample IDs: 2338005, 2338007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethion	100		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	99.0		P	80 - 120
Fenamiphos	108		P	80 - 120
Fenbuconazole	94.8		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	98.6		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	107		P	80 - 120
Fluazifop-P-butyl	115		P	80 - 120
Fludioxonil	97.3		P	80 - 120
Flumioxazin	97.1		P	80 - 120
Flutolanil	95.0		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	95.1		P	80 - 120
Hexazinone	93.3		P	80 - 120
Imazalil	94.9		P	80 - 120
Iprodione	109		P	80 - 120
Loratadine	101		P	80 - 120
Malathion	118		P	80 - 120
Metalaxyl	98.3		P	80 - 120
Metolachlor	99.4		P	80 - 120
Metribuzin	96.4		P	80 - 120
Mevinphos	96.0		P	80 - 120
Molinate	98.2		P	80 - 120
Myclobutanil	106		P	80 - 120
Naled	113		P	80 - 120
Napropamide	99.8		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	94.9		P	80 - 120
Parathion Methyl	97.3		P	80 - 120
Pendimethalin	93.0		P	80 - 120
Phenytol	106		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	90.1		P	80 - 120
Prometon	87.6		P	80 - 120
Prometryn	93.6		P	80 - 120
Pronamide	90.7		P	80 - 120
Propanil	94.2		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	102		P	80 - 120
Pyraflufen Ethyl	94.3		P	80 - 120
Pyridaben	111		P	80 - 120
Pyriproxyfen	96.8		P	80 - 120
Simazine	99.2		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	111		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	99.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113373

Included Lab Sample IDs: 2338005, 2338007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbutylazine	103		P	80 - 120
Thiobencarb	95.6		P	80 - 120
Triadimefon	94.7		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113394

Included Lab Sample IDs: 2338004, 2338006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	92.4		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	96.5		P	80 - 120
Cis-Nonachlor	100		P	80 - 120
Cypermethrin	92.7		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	106		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	107		P	80 - 120
Deltamethrin	85.7		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	109		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	93.0		P	80 - 120
Ethalfuralin	98.3		P	80 - 120
Fenpropathrin	104		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	99.4		P	80 - 120
Kepone	131*		F	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	98.8		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	110		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	107		P	80 - 120
Piperonyl Butoxide	88.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113394

Included Lab Sample IDs: 2338004, 2338006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prallethrin	98.1		P	80 - 120
Tau-Fluvalinate	85.7		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	98.9		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	91.7		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113400

Included Lab Sample IDs: 2338005, 2338007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	103		P	80 - 120
Avobenzene	94.8		P	80 - 120
Octinoxate	95.4		P	80 - 120
Oxybenzone	96.5		P	80 - 120
PBDE-47	99.8		P	80 - 120
PBDE-99	102		P	80 - 120
Tri-o-cresyl Phosphate	98.5		P	80 - 120

Reference Method: EPA 8276

Run ID: A113432

Included Lab Sample IDs: 2338004, 2338006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	99.5		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 SMP	MS
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.9	86.6 122			33.7
	Acetochlor	91.0	92.9 96.2			3.47
	Alachlor	85.1	93.6 115			20.7
	Aldrin	65.2	65.8 63.8			3.08
	Alpha-BHC	103	97.1 104			7.30
	Alpha-Chlordane	78.6	87.0 94.1			7.86
	Ametryn	77.7	95.7 106			9.78
	Atrazine	88.7	107 117			6.56
	Atrazine Desethyl	64.5	48.0 56.3			15.8
	Avobenzone	88.9	78.4 109			32.7
	Azinphos Methyl	124	97.9 155			45.0
	Azoxystrobin	114	126 126			0.119
	Beta-BHC	121	111 114			1.93
	Beta-Cyfluthrin	59.4	105 115			9.94
	Bifenthrin	47.2	85.6 92.4			7.65
	Bromacil	71.1				8.50
	Butylate	51.1	57.4 49.4			14.9
	Caffeine	70.7	71.7 75.0			4.51
	Carbophenothion	92.4	109 107			1.59
	Carfentrazone Ethyl	94.2	107 101			5.92
	Chlorfenapyr	76.4	108 107			0.771
	Chlorothalonil	86.6	150 153			1.73
	Chlorpyrifos Ethyl	79.9	85.7 96.4			11.8
	Chlorpyrifos Methyl	77.0	88.2 90.8			2.82
	Cis-Nonachlor	67.2	86.3 83.8			2.94
	Coumaphos	80.5	76.3 79.6			4.35
	Cyanazine	79.7	83.3 77.9			6.71
	Cypermethrin	62.8	103 111			7.50
	Cyprodinil	77.2	98.2 84.3			15.2
	Dacthal	103	103 107			3.96
	DDD-p,p'	74.9	88.9 87.5			1.52
	DDE-p,p'	83.8	89.1 91.0			2.08
	DDT-p,p'	77.5	82.2 88.4			6.80
	Delta-BHC	124	124 131			5.21
	Deltamethrin	59.6	101 106			4.52
	Demeton	73.5	104 104			0.277
	Diazinon	91.5	87.8 103			15.8
	Dichlobenil	103	103 101			1.53
	Dicofol	74.9	81.2 90.0			10.3
	Dieldrin	84.6	92.1 94.2			2.23
	Difenoconazole	89.3				7.19
	Dimethenamid	58.4	64.4 73.0			12.5
	Dimethomorph	159	106 102			3.42
	Disulfoton	79.1	86.6 92.4			6.42
	Dithiopyr	84.1	80.7 80.7			0.0108
	Endosulfan I	87.5	96.8 101			4.66
	Endosulfan II	78.0	89.9 90.9			1.08
	Endosulfan Sulfate	92.7	106 109			2.84
	Endrin	80.7	89.3 92.6			3.69
	Endrin Aldehyde	73.8	99.9 91.6			8.64
	Endrin Ketone	103	109 108			1.48
	EPTC	45.2	55.3 53.2			3.82

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Esfenvalerate	55.0	95.8	107			11.4
	Ethalfuralin	79.7	87.7	86.9			0.861
	Ethion	28.5	23.6	36.0			41.6
	Ethoprop	78.9	93.0	99.9			7.07
	Etridiazole	59.0	67.3	62.7			7.02
	Fenamiphos	71.4	92.6	94.5			2.07
	Fenbuconazole	87.8	81.3	85.0			3.99
	Fenpropathrin	67.7	95.0	93.5			1.58
	Fipronil	85.3	88.8	83.0			6.85
	Fipronil Desulfinyl	85.0	83.7	92.6			10.0
	Fipronil Sulfide	64.7	90.4	80.4			11.7
	Fipronil Sulfone	94.3	123	126			2.71
	Fluazifop-P-butyl	92.4	117	129			9.56
	Fludioxonil	70.8	89.8	92.4			2.67
	Flumioxazin	99.2	88.4	111			22.7
	Flutolanil	74.4	95.0	103			8.03
	Fluxapyroxad	63.4	81.5	104			24.1
	Fonofos	68.2	88.7	100			12.1
	Gamma-BHC	111	101	106			5.09
	Gamma-Chlordane	73.7	89.5	90.7			1.32
	Heptachlor	70.8	74.4	77.5			4.15
	Heptachlor Epoxide	84.4	90.2	99.0			9.30
	Hexachlorobenzene	80.2	84.3	85.0			0.828
	Hexazinone	68.2	82.8	91.1			9.60
	Imazalil	79.9	185	160			14.6
	Iprodione	77.3	131	148			12.4
	Kepone	55.5	69.1	71.7			3.70
	Lambda-Cyhalothrin	53.4	105	112			6.76
	Loratadine	164	99.1	93.5			5.78
	Malathion	91.4	103	106			3.06
	Metalaxyl	86.0					2.99
	Methoprene	44.8	77.8	80.3			3.19
	Methoxychlor	89.8	88.1	95.4			7.97
	Metolachlor	82.9	91.7	91.2			0.365
	Metribuzin	88.1	105	112			5.98
	Mevinphos	71.5	84.8	79.5			6.39
	MGK-264	91.5	104	103			1.08
	Mirex	54.1	70.5	75.9			7.39
	Molinate	59.1	73.6	72.1			2.00
	Myclobutanil	78.8	96.0	91.6			4.78
	Naled	78.5	90.2	91.2			1.14
	Napropamide	54.1	68.4	56.7			18.8
	Norflurazon	74.6					12.6
	Octinoxate	86.1	83.3	114			30.8
	Oxadiazon	72.2	104	94.6			9.79
	Oxybenzone	78.6	81.5	101			21.8
	Oxychlordane	77.3	82.7	89.4			7.81
	Oxyfluorfen	109	119	123			3.55
	Parathion Ethyl	80.5	92.5	94.0			1.65
	Parathion Methyl	106	122	132			7.75
	PBDE-47	84.7	78.0	110			34.2
	PBDE-99	84.9	75.0	108			36.4
	PCB-1016	83.2	79.1	89.9			12.7
	PCB-1260	88.0	83.3	92.0			9.88

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Pendimethalin	90.1	119	115			3.57
	Permethrin	72.0	108	116			7.16
	Phenothrin	46.5	84.2	86.4			2.59
	Phenytol	15.7	25.3	29.5			15.1
	Phorate	74.2	92.8	95.1			2.47
	Piperonyl Butoxide	127	149	144			3.60
	Prallethrin	78.3	90.5	86.9			4.00
	Prodiamine	53.2	62.3	66.7			6.91
	Prometon	64.0	79.8	80.2			0.572
	Prometryn	74.6	76.4	71.6			6.45
	Pronamide	95.9	102	86.4			16.4
	Propanil	77.7	76.1	74.4			2.29
	Propargite	43.3	50.4	66.2			27.1
	Propiconazole	74.2	71.8	71.7			0.0425
	Pyraflufen Ethyl	82.8	84.2	89.4			5.97
	Pyridaben	73.1	73.3	79.5			8.11
	Pyriproxyfen	70.6	45.5	85.3			60.9
	Simazine	80.3					6.40
	Stirophos	36.7	74.4	86.3			14.8
	Sulfentrazone	82.2	186	224			14.2
	Tau-Fluvalinate	43.5	88.5	96.8			8.92
	Tebuconazole	30.7	41.4	43.3			4.58
	Terbufos	91.2	99.6	110			9.66
	Terbutylazine	89.0	93.3	105			11.4
	Tetramethrin	104	126	129			2.09
	Thiobencarb	87.5	87.7	83.2			5.16
	Trans-Nonachlor	76.1	89.0	93.3			4.72
	Tri-o-cresyl Phosphate	82.3	81.0	103			24.1
	Triadimefon	65.6	63.3	63.8			0.818
	Triclosan Methyl	84.6	92.9	96.0			3.29
	Trifluralin	74.6	81.1	78.0			3.83
EPA 8276	Chlordane	105	89.5	98.0			8.51
	Toxaphene	90.0	96.3	105			9.07
EPA 8321B	2,4-D	86.8	83.6	79.8			4.62
	2,4,5-T	56.0	48.0	49.7			3.53
	3-Hydroxycarbofuran	75.6	91.6	84.1			8.50
	Acesulfame K	90.0	70.7	74.9			5.65
	Acetaminophen	99.4	104	101			3.12
	Acetamiprid	95.3	101	101			0.520
	Afidopyropen	70.9	70.2	71.8			2.21
	Aldicarb	59.0	50.1	46.9			6.48
	Aldicarb Sulfone	91.1	103	104			1.61
	Aldicarb Sulfoxide	90.3	49.4	48.8			1.32
	AMPA	91.3	37.3	43.6			6.52
	Bentazon	79.0	52.1	59.6			13.4
	Benzovindiflupyr	91.0	85.7	81.8			4.67
	Carbamazepine	97.9	92.2	89.3			3.20
	Carbaryl	61.0	49.0	46.0			6.27
	Carbofuran	63.6	53.1	54.4			2.46
	Clothianidin	105	98.1	102			3.67
	Dinotefuran	108	126	122			2.87
	Diuron	85.7	86.8	80.0			8.21
	Endothall	96.3	117	121			3.24
	Fenuron	107	90.1	92.0			2.15

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Fluridone	92.9	79.5	78.1			1.84
	Glufosinate	82.5	25.5	20.7			20.7
	Glyphosate	91.0	39.8	45.5			4.33
	Hydrocodone	99.7	96.5	94.3			2.33
	Ibuprofen	80.4	76.1	67.2			12.4
	Imazapyr	96.1	85.5	82.5			3.57
	Imidacloprid	104	122	120			1.36
	Linuron	101	81.6	79.3			2.87
	Mandestrobin	97.4	79.8	79.3			0.610
	MCPP	104	83.7	81.9			2.22
	Methiocarb	72.7	58.1	63.5			8.90
	Methomyl	80.9	74.6	73.4			1.57
	Naproxen	72.4	68.4	38.0			57.1
	Oxamyl	86.5	82.1	80.9			1.50
	Primidone	98.9	87.2	89.8			3.00
	Propoxur	60.6	52.4	53.9			2.85
	Pyraclostrobin	80.7	80.6	78.0			3.24
	Silvex	62.7	56.1	50.8			9.81
	Sucralose	90.3	81.6	90.6			9.99
	Thiamethoxam	95.3	116	112			3.26
	Tolfenpyrad	49.4	47.3	44.5			6.03
	Triclopyr	63.6	57.2	59.3			3.58

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2338005, 2338007
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2338004, 2338006
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2338005, 2338007
EPA 8270E	PCBs in water matrices by GC/MS/MS	2338004, 2338006
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2338004, 2338006
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2337996
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2337995, 2337997, 2337998

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	06/29/2022	06/30/2022 07:30	Fe-Val Siddell	07/06/2022 19:04	Michael Poppell	2338005
	06/29/2022	06/30/2022 07:30	Fe-Val Siddell	07/07/2022 23:28	Lipi Saha	2338005
	06/29/2022	06/30/2022 07:30	Fe-Val Siddell	07/07/2022 23:47	Lipi Saha	2338007
	06/29/2022	06/30/2022 07:30	Fe-Val Siddell	07/08/2022 04:01	Michael Poppell	2338005
	06/29/2022	06/30/2022 07:30	Fe-Val Siddell	07/08/2022 04:28	Michael Poppell	2338007
	06/29/2022	07/05/2022 08:00	Rasheda Ghaffari	07/08/2022 04:44	Arthur Maknenko	2338004
	06/29/2022	07/05/2022 08:00	Rasheda Ghaffari	07/08/2022 05:14	Arthur Maknenko	2338006
	06/29/2022	07/05/2022 08:00	Rasheda Ghaffari	07/08/2022 18:13	Michael Poppell	2338004
	06/29/2022	07/05/2022 08:00	Rasheda Ghaffari	07/08/2022 18:43	Michael Poppell	2338006
EPA 8276	06/29/2022	07/05/2022 08:00	Rasheda Ghaffari	07/11/2022 11:06	Julie Wi	2338004
	06/29/2022	07/05/2022 08:00	Rasheda Ghaffari	07/11/2022 12:01	Julie Wi	2338006
EPA 8321B	06/29/2022	06/29/2022 13:30	June Rhew	07/01/2022 00:00	Juyoung Kim	2337995
	06/29/2022	06/29/2022 13:30	June Rhew	07/01/2022 00:21	Juyoung Kim	2337997
	06/29/2022	06/29/2022 13:30	June Rhew	07/01/2022 00:42	Juyoung Kim	2337998
	06/29/2022	07/01/2022 09:00	June Rhew	07/01/2022 18:53	Juyoung Kim	2337996
	06/29/2022	07/01/2022 09:00	Umesh Chiluwal	07/01/2022 11:29	Umesh Chiluwal	2337995
	06/29/2022	07/01/2022 09:00	Umesh Chiluwal	07/01/2022 12:14	Umesh Chiluwal	2337997
	06/29/2022	07/01/2022 09:00	Umesh Chiluwal	07/01/2022 12:29	Umesh Chiluwal	2337998
	06/29/2022	07/01/2022 09:00	Umesh Chiluwal	07/01/2022 20:22	Umesh Chiluwal	2337995
	06/29/2022	07/01/2022 09:00	Umesh Chiluwal	07/01/2022 21:01	Umesh Chiluwal	2337997
	06/29/2022	07/01/2022 09:00	Umesh Chiluwal	07/01/2022 21:14	Umesh Chiluwal	2337998