

Chemical Analysis Report

CEN-DIST-2021-08-24-01

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

Event Description: **Crane Creek + Blank - WBID 3085A**
Request ID: **RQ-2021-08-23-20**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 13-SEP-2021 10:33



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: Crane Creek @ 200m Upstream of RR Bridge

Collection Date/Time: 08/23/2021 11:31

Field ID: G5CE0097

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271386	EPA 8321B	Aldicarb	0.020	U	ug/L	P403053	
		Aldicarb Sulfone	0.0020	U	ug/L	P403053	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P403053	
		Carbaryl	0.0020	U	ug/L	P403053	
		Carbofuran	0.0020	U	ug/L	P403053	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P403053	
		Methiocarb	0.0020	U	ug/L	P403053	
		Methomyl	0.0020	U	ug/L	P403053	
		Oxamyl	0.0020	U	ug/L	P403053	
		Propoxur	0.0020	U	ug/L	P403053	
2271388		Acesulfame K	0.10	U	ug/L	P402974	
		2,4-D	0.56		ug/L	P403027	
		AMPA	1.0	U	ug/L	P402974	
		2,4,5-T	0.0040	U	ug/L	P403027	
		Acetaminophen	0.024	I	ug/L	P403027	
		Endothall	0.25	U	ug/L	P402974	
		Acetamiprid	0.0020	U	ug/L	P403027	
		Glufosinate	1.0	U	ug/L	P402974	
		Glyphosate	3.0	I	ug/L	P402974	
		Afidopyropen	0.0020	U	ug/L	P403027	
		Sucralose	0.47		ug/L	P402974	
		Bentazon	0.082		ug/L	P403027	
		Benzovindiflupyr	0.0020	U	ug/L	P403027	
		Carbamazepine	0.0019	I	ug/L	P403027	
		Clothianidin	0.0021	I	ug/L	P403027	
		Dinotefuran	0.0020	U	ug/L	P403027	
		Diuron	0.0059	I	ug/L	P403027	
		Fenuron	0.016	U	ug/L	P403027	
		Fluridone	0.013		ug/L	P403027	
		Imazapyr	0.33		ug/L	P403027	
		Hydrocodone	0.0020	U	ug/L	P403027	
		Ibuprofen	0.020	U	ug/L	P403027	
		Imidacloprid	0.18		ug/L	P403027	
		Linuron	0.0040	U	ug/L	P403027	
		Mandestrobin	0.0020	U	ug/L	P403027	
		MCP	0.0025	I	ug/L	P403027	
		Naproxen	0.0080	U	ug/L	P403027	
		Primidone	0.0040	U	ug/L	P403027	MS, RPD
		Pyraclostrobin	0.0020	U	ug/L	P403027	
		Thiamethoxam	0.0020	U	ug/L	P403027	
		Tolfenpyrad	0.0020	U	ug/L	P403027	
		Triclopyr	0.0040	U	ug/L	P403027	
2271397	EPA 8270E	Aldrin	0.68	U	ng/L	P402975	
		Alpha-BHC	0.10	U	ng/L	P402975	

Field ID: G5CE0097

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271397	EPA 8270E	Alpha-Chlordane	0.21	U	ng/L	P402975	
		Beta-BHC	0.10	U	ng/L	P402975	
		Beta-Cyfluthrin**	1.3	U	ng/L	P402975	
		Bifenthrin**	0.65	I	ng/L	P402975	
		Chlorothalonil	0.52	U	ng/L	P402975	
		Cis-Nonachlor**	0.21	U	ng/L	P402975	
		Cypermethrin	1.6	U	ng/L	P402975	
		Dacthal**	0.16	U	ng/L	P402975	
		DDD-p,p'	0.26	U	ng/L	P402975	
		DDE-p,p'	0.21	U	ng/L	P402975	
		DDT-p,p'	0.26	U	ng/L	P402975	
		Delta-BHC	0.42	U	ng/L	P402975	
		Deltamethrin**	1.3	U	ng/L	P402975	
		Dichlobenil**	0.10	U	ng/L	P402975	
		Dicofol	1.3	U	ng/L	P402975	
		Dieldrin	0.42	U	ng/L	P402975	
		Endosulfan I	0.42	U	ng/L	P402975	
		Endosulfan II	0.42	U	ng/L	P402975	
		Endosulfan Sulfate	0.31	U	ng/L	P402975	
		Endrin	0.42	UJ	ng/L	P402975	LCS, MS
		Endrin Aldehyde	0.78	UJ	ng/L	P402975	LCS, MS
		Endrin Ketone	0.42	UJ	ng/L	P402975	LCS
		Esfenvalerate**	0.78	U	ng/L	P402975	
		Ethalfuralin**	0.16	U	ng/L	P402975	
		Fenpropathrin**	0.26	U	ng/L	P402975	
		Gamma-BHC	0.13	U	ng/L	P402975	
		Gamma-Chlordane	0.21	U	ng/L	P402975	
		Heptachlor	0.21	U	ng/L	P402975	
		Heptachlor Epoxide	0.26	U	ng/L	P402975	
		Hexachlorobenzene	1.0	U	ng/L	P402975	
		Kepone**	5.2	UJ	ng/L	P402975	CCV
		Lambda-Cyhalothrin**	0.78	U	ng/L	P402975	
		Methoxychlor	0.31	U	ng/L	P402975	
		MGK-264**	0.21	U	ng/L	P402975	
		Mirex	0.73	U	ng/L	P402975	
		Permethrin	1.7	U	ng/L	P402975	
		Phenothrin**	0.94	U	ng/L	P402975	
		Piperonyl Butoxide**	0.32	IJ	ng/L	P402975	LCS, MS
		Prallethrin**	2.1	UJ	ng/L	P402975	LCS
		Tau-Fluvalinate**	0.26	U	ng/L	P402975	
		Tetramethrin**	0.78	UJ	ng/L	P402975	LCS, RPD
		Trans-Nonachlor**	0.21	U	ng/L	P402975	
		Triclosan Methyl**	0.16	U	ng/L	P402975	
		Trifluralin	0.21	U	ng/L	P402975	
		Chlordane	5.2	U	ng/L	P402975	

Field ID: G5CE0097

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271397	EPA 8276	Toxaphene	31	U	ng/L	P402975	
2271399	EPA 8270E	Acetochlor	0.24	U	ng/L	P403054	
		Alachlor	0.24	U	ng/L	P403054	
		Ametryn	1.7	I	ng/L	P403054	
		Atrazine	33		ng/L	P403054	
		Atrazine Desethyl	5.2	I	ng/L	P403054	
		Azinphos Methyl	1.9	UJ	ng/L	P403054	SUR
		Azoxystrobin**	0.48	U	ng/L	P403054	
		Bromacil	0.48	U	ng/L	P403054	
		Butylate	0.38	U	ng/L	P403054	
		Caffeine**	60		ng/L	P403054	MS
		Carbophenothion	0.48	UJ	ng/L	P403054	SUR
		Carfentrazone Ethyl**	0.096	U	ng/L	P403054	
		Chlorpyrifos Ethyl	0.24	UJ	ng/L	P403054	SUR
		Chlorpyrifos Methyl	0.048	UJ	ng/L	P403054	SUR
		Cyanazine	3.1	U	ng/L	P403054	
		Demeton	1.4	UJ	ng/L	P403054	SUR
		Diazinon	0.12	UJ	ng/L	P403054	SUR
		Difenoconazole**	0.57	U	ng/L	P403054	
		Dimethenamid**	0.096	U	ng/L	P403054	
		Disulfoton	0.48	UJ	ng/L	P403054	SUR
		Dithiopyr**	0.77		ng/L	P403054	
		EPTC	1.2	U	ng/L	P403054	
		Ethion	0.14	UJ	ng/L	P403054	SUR
		Ethoprop	0.096	UJ	ng/L	P403054	SUR
		Fenamiphos	0.48	UJ	ng/L	P403054	SUR
		Fenbuconazole**	0.38	I	ng/L	P403054	
		Fipronil	0.74	I	ng/L	P403054	
		Fipronil Desulfinyl**	1.2		ng/L	P403054	
		Fipronil Sulfide	0.91		ng/L	P403054	
		Fipronil Sulfone	2.0		ng/L	P403054	
		Fluazifop-P-butyl**	0.096	U	ng/L	P403054	
		Fludioxonil**	0.12	U	ng/L	P403054	
		Flumioxazin**	1.7	U	ng/L	P403054	
		Flutolanil**	0.096	U	ng/L	P403054	
		Fluxapyroxad**	0.096	U	ng/L	P403054	
		Fonofos	0.19	UJ	ng/L	P403054	SUR
		Hexazinone	0.78	I	ng/L	P403054	
		Imazalil**	0.72	U	ng/L	P403054	
		Iprodione**	0.57	U	ng/L	P403054	
		Malathion	0.33	UJ	ng/L	P403054	SUR
		Metalaxyl	0.72	U	ng/L	P403054	
		Metolachlor	0.33	U	ng/L	P403054	
		Metribuzin	3.1	U	ng/L	P403054	
		Mevinphos	1.0	UJ	ng/L	P403054	SUR

Field ID: G5CE0097

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271399	EPA 8270E	Molinate	0.29	U	ng/L	P403054	
		Myclobutanil**	1.8		ng/L	P403054	
		Naled**	1.4	UJ	ng/L	P403054	SUR
		Norflurazon	0.48	U	ng/L	P403054	
		Oxadiazon	1.5		ng/L	P403054	
		Oxyfluorfen**	0.14	U	ng/L	P403054	
		Parathion Ethyl	0.24	UJ	ng/L	P403054	SUR
		Parathion Methyl	0.53	UJ	ng/L	P403054	SUR
		Pendimethalin	0.96	U	ng/L	P403054	
		Phorate	0.50	UJ	ng/L	P403054	SUR
		Prodiamine**	0.17	U	ng/L	P403054	
		Prometon	0.86	U	ng/L	P403054	
		Prometryn	0.19	U	ng/L	P403054	
		Pronamide**	0.14	U	ng/L	P403054	
		Propiconazole**	3.7		ng/L	P403054	
		Pyriproxyfen**	0.12	U	ng/L	P403054	
		Simazine	1.4	I	ng/L	P403054	
		Sulfentrazone**	17		ng/L	P403054	
		Tebuconazole**	0.48	U	ng/L	P403054	
		Terbufos	0.096	UJ	ng/L	P403054	SUR
		Terbuthylazine	0.41	U	ng/L	P403054	

Ref. Method and Comment:

EPA 8321B: MDL for some parameters elevated due to matrix interference.

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

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Precision data for piperonyl butoxide not reported due to low recoveries.

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: 08/23/2021 11:57

Field ID: FB_08232021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271387	EPA 8321B	Aldicarb	0.020	U	ug/L	P403053	
		Aldicarb Sulfone	0.0020	U	ug/L	P403053	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P403053	
		Carbaryl	0.0020	U	ug/L	P403053	
		Carbofuran	0.0020	U	ug/L	P403053	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P403053	
		Methiocarb	0.0020	U	ug/L	P403053	
		Methomyl	0.0020	U	ug/L	P403053	
		Oxamyl	0.0020	U	ug/L	P403053	
		Propoxur	0.0020	U	ug/L	P403053	
2271389		2,4-D	0.0020	U	ug/L	P403027	
		Acesulfame K	0.10	U	ug/L	P402974	
		2,4,5-T	0.0040	U	ug/L	P403027	
		AMPA	0.10	U	ug/L	P402974	
		Acetaminophen	0.0080	U	ug/L	P403027	
		Acetamiprid	0.0020	U	ug/L	P403027	
		Endothall	0.25	U	ug/L	P402974	
		Glufosinate	0.10	U	ug/L	P402974	
		Glyphosate	0.10	U	ug/L	P402974	
		Afidopyropen	0.0020	U	ug/L	P403027	
		Bentazon	8.0E-04	U	ug/L	P403027	
		Sucralose	0.010	U	ug/L	P402974	
		Benzovindiflupyr	0.0020	U	ug/L	P403027	
		Carbamazepine	8.0E-04	U	ug/L	P403027	
		Clothianidin	0.0020	U	ug/L	P403027	
		Dinotefuran	0.0020	U	ug/L	P403027	
		Diuron	0.0020	U	ug/L	P403027	
		Fenuron	0.016	U	ug/L	P403027	
		Fluridone	8.0E-04	U	ug/L	P403027	
		Imazapyr	0.0040	U	ug/L	P403027	
		Hydrocodone	0.0020	U	ug/L	P403027	
		Ibuprofen	0.020	U	ug/L	P403027	
		Imidacloprid	0.0020	U	ug/L	P403027	
		Linuron	0.0040	U	ug/L	P403027	
		Mandestrobin	0.0020	U	ug/L	P403027	
		MCPP	0.0020	U	ug/L	P403027	
		Naproxen	0.0080	U	ug/L	P403027	
		Primidone	0.0040	U	ug/L	P403027	MS, RPD
		Pyraclostrobin	0.0020	U	ug/L	P403027	
		Thiamethoxam	0.0020	U	ug/L	P403027	
		Tolfenpyrad	0.0020	U	ug/L	P403027	
		Triclopyr	0.0040	U	ug/L	P403027	
2271398	EPA 8270E	Aldrin	0.68	U	ng/L	P402975	
		Alpha-BHC	0.10	U	ng/L	P402975	

Field ID: FB_08232021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271398	EPA 8270E	Alpha-Chlordane	0.21	U	ng/L	P402975	
		Beta-BHC	0.10	U	ng/L	P402975	
		Beta-Cyfluthrin**	1.3	U	ng/L	P402975	
		Bifenthrin**	0.52	U	ng/L	P402975	
		Chlorothalonil	0.52	U	ng/L	P402975	
		Cis-Nonachlor**	0.21	U	ng/L	P402975	
		Cypermethrin	1.6	U	ng/L	P402975	
		Dacthal**	0.16	U	ng/L	P402975	
		DDD-p,p'	0.26	U	ng/L	P402975	
		DDE-p,p'	0.21	U	ng/L	P402975	
		DDT-p,p'	0.26	U	ng/L	P402975	
		Delta-BHC	0.42	U	ng/L	P402975	
		Deltamethrin**	1.3	U	ng/L	P402975	
		Dichlobenil**	0.10	U	ng/L	P402975	
		Dicofol	1.3	U	ng/L	P402975	
		Dieldrin	0.42	U	ng/L	P402975	
		Endosulfan I	0.42	U	ng/L	P402975	
		Endosulfan II	0.42	U	ng/L	P402975	
		Endosulfan Sulfate	0.31	U	ng/L	P402975	
		Endrin	0.42	UJ	ng/L	P402975	LCS, MS
		Endrin Aldehyde	0.79	UJ	ng/L	P402975	LCS, MS
		Endrin Ketone	0.42	UJ	ng/L	P402975	LCS
		Esfenvalerate**	0.79	U	ng/L	P402975	
		Ethalfuralin**	0.16	U	ng/L	P402975	
		Fenpropathrin**	0.26	U	ng/L	P402975	
		Gamma-BHC	0.13	U	ng/L	P402975	
		Gamma-Chlordane	0.21	U	ng/L	P402975	
		Heptachlor	0.21	U	ng/L	P402975	
		Heptachlor Epoxide	0.26	U	ng/L	P402975	
		Hexachlorobenzene	1.0	U	ng/L	P402975	
		Kepone**	5.2	UJ	ng/L	P402975	CCV
		Lambda-Cyhalothrin**	0.79	U	ng/L	P402975	
		Methoxychlor	0.31	U	ng/L	P402975	
		MGK-264**	0.21	U	ng/L	P402975	
		Mirex	0.73	U	ng/L	P402975	
		Permethrin	1.7	U	ng/L	P402975	
		Phenothrin**	0.94	U	ng/L	P402975	
		Piperonyl Butoxide**	0.16	UJ	ng/L	P402975	LCS, MS
		Prallethrin**	2.1	UJ	ng/L	P402975	LCS
		Tau-Fluvalinate**	0.26	U	ng/L	P402975	
		Tetramethrin**	0.79	UJ	ng/L	P402975	LCS, RPD
		Trans-Nonachlor**	0.21	U	ng/L	P402975	
		Triclosan Methyl**	0.16	U	ng/L	P402975	
		Trifluralin	0.21	U	ng/L	P402975	
	EPA 8276	Chlordane	5.2	U	ng/L	P402975	

Field ID: FB_08232021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271398	EPA 8276	Toxaphene	31	U	ng/L	P402975	
2271400	EPA 8270E	Acetochlor	0.24	U	ng/L	P403054	
		Alachlor	0.24	U	ng/L	P403054	
		Ametryn	0.57	U	ng/L	P403054	
		Atrazine	0.24	U	ng/L	P403054	
		Atrazine Desethyl	1.4	U	ng/L	P403054	
		Azinphos Methyl	1.9	U	ng/L	P403054	
		Azoxystrobin**	0.48	U	ng/L	P403054	
		Bromacil	0.48	U	ng/L	P403054	
		Butylate	0.38	U	ng/L	P403054	
		Caffeine**	12	I J	ng/L	P403054	MS
		Carbophenothion	0.48	U	ng/L	P403054	
		Carfentrazone Ethyl**	0.096	U	ng/L	P403054	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P403054	
		Chlorpyrifos Methyl	0.048	U	ng/L	P403054	
		Cyanazine	3.1	U	ng/L	P403054	
		Demeton	1.4	U	ng/L	P403054	
		Diazinon	0.12	U	ng/L	P403054	
		Difenoconazole**	0.57	U	ng/L	P403054	
		Dimethenamid**	0.096	U	ng/L	P403054	
		Disulfoton	0.48	U	ng/L	P403054	
		Dithiopyr**	0.17	U	ng/L	P403054	
		EPTC	1.2	U	ng/L	P403054	
		Ethion	0.14	U	ng/L	P403054	
		Ethoprop	0.096	U	ng/L	P403054	
		Fenamiphos	0.48	U	ng/L	P403054	
		Fenbuconazole**	0.12	U	ng/L	P403054	
		Fipronil	0.24	U	ng/L	P403054	
		Fipronil Desulfinyl**	0.12	U	ng/L	P403054	
		Fipronil Sulfide	0.14	U	ng/L	P403054	
		Fipronil Sulfone	0.14	U	ng/L	P403054	
		Fluazifop-P-butyl**	0.096	U	ng/L	P403054	
		Fludioxonil**	0.12	U	ng/L	P403054	
		Flumioxazin**	1.7	U	ng/L	P403054	
		Flutolanil**	0.096	U	ng/L	P403054	
		Fluxapyroxad**	0.096	U	ng/L	P403054	
		Fonofos	0.19	U	ng/L	P403054	
		Hexazinone	0.48	U	ng/L	P403054	
		Imazalil**	0.72	U	ng/L	P403054	
		Iprodione**	0.57	U	ng/L	P403054	
		Malathion	0.33	U	ng/L	P403054	
		Metalaxyl	0.72	U	ng/L	P403054	
		Metolachlor	0.33	U	ng/L	P403054	
		Metribuzin	3.1	U	ng/L	P403054	
		Mevinphos	1.0	U	ng/L	P403054	

Field ID: FB_08232021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2271400	EPA 8270E	Molinate	0.29	U	ng/L	P403054	
		Myclobutanil**	0.24	U	ng/L	P403054	
		Naled**	1.4	U	ng/L	P403054	
		Norflurazon	0.48	U	ng/L	P403054	
		Oxadiazon	0.29	U	ng/L	P403054	
		Oxyfluorfen**	0.14	U	ng/L	P403054	
		Parathion Ethyl	0.24	U	ng/L	P403054	
		Parathion Methyl	0.53	U	ng/L	P403054	
		Pendimethalin	0.96	U	ng/L	P403054	
		Phorate	0.50	U	ng/L	P403054	
		Prodiamine**	0.17	U	ng/L	P403054	
		Prometon	0.86	U	ng/L	P403054	
		Prometryn	0.19	U	ng/L	P403054	
		Pronamide**	0.14	U	ng/L	P403054	
		Propiconazole**	0.48	U	ng/L	P403054	
		Pyriproxyfen**	0.12	U	ng/L	P403054	
		Simazine	0.48	U	ng/L	P403054	
		Sulfentrazone**	0.48	U	ng/L	P403054	
		Tebuconazole**	0.48	U	ng/L	P403054	
		Terbufos	0.096	U	ng/L	P403054	
		Terbuthylazine	0.41	U	ng/L	P403054	

Ref. Method and Comment:

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

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Precision data for piperonyl butoxide not reported due to low recoveries.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P402975

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	0.50	U	ng/L
Chlorothalonil	0.50	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.10	U	ng/L
Dichlobenil	0.10	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P402975

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
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
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 8270E

Batch ID: P403054

Component	Result	Code	Units
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P403054

Component	Result	Code	Units
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	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	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	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
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	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
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P403054

Component	Result	Code	Units
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
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	3.2	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	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
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P403054

Component	Result	Code	Units
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
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
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

Reference Method: EPA 8276

Batch ID: P402975

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B

Batch ID: P402974

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: P403027

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P403027

Component	Result	Code	Units
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P403053

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: P402975

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	53.3	56.3	P/P	20 - 150
Alpha-BHC	88.5	89.0	P/P	50 - 150
Alpha-Chlordane	72.1	70.1	P/P	50 - 150
Beta-BHC	117	111	P/P	50 - 150
Beta-Cyfluthrin	90.8	91.3	P/P	50 - 150
Bifenthrin	79.4	89.6	P/P	40 - 150
Chlorothalonil	39.2	46.7	P/P	20 - 150
Cis-Nonachlor	79.5	77.4	P/P	50 - 150
Cypermethrin	92.3	88.8	P/P	50 - 150
Dacthal	87.1	87.8	P/P	50 - 150
DDD-p,p'	85.7	81.4	P/P	50 - 150
DDE-p,p'	71.8	74.9	P/P	50 - 150
DDT-p,p'	73.4	68.5	P/P	50 - 150
Delta-BHC	124	121	P/P	50 - 150
Deltamethrin	95.2	97.8	P/P	50 - 150
Dichlobenil	76.2	69.9	P/P	40 - 150
Dicofol	79.9	68.8	P/P	50 - 150
Dieldrin	60.0	61.9	P/P	50 - 150
Endosulfan I	78.9	85.9	P/P	50 - 150
Endosulfan II	84.4	84.6	P/P	50 - 150
Endosulfan Sulfate	101	95.0	P/P	50 - 150
Endrin	4.52	4.44	F/F	50 - 150
Endrin Aldehyde	45.9	43.4	F/F	50 - 150
Endrin Ketone	160	151	F/F	50 - 150
Esfenvalerate	84.4	85.0	P/P	50 - 180
Ethalfuralin	50.6	54.2	P/P	50 - 150
Fenpropathrin	56.0	56.8	P/P	50 - 150
Gamma-BHC	92.3	92.3	P/P	50 - 150
Gamma-Chlordane	72.3	73.4	P/P	50 - 150
Heptachlor	64.4	66.2	P/P	50 - 150
Heptachlor Epoxide	79.8	79.9	P/P	50 - 150
Hexachlorobenzene	75.2	71.8	P/P	50 - 150
Kepone	82.9	68.3	P/P	30 - 180
Lambda-Cyhalothrin	97.1	98.3	P/P	50 - 200
Methoxychlor	81.2	82.0	P/P	50 - 150
MGK-264	81.9	82.0	P/P	30 - 150
Mirex	64.6	62.4	P/P	50 - 180
Permethrin	98.7	96.4	P/P	50 - 150
Phenothrin	65.4	62.4	P/P	20 - 150
Piperonyl Butoxide	0.534	0.375	F/F	50 - 150
Prallethrin	27.3	27.1	F/F	30 - 150
Tau-Fluvalinate	82.8	80.2	P/P	40 - 150
Tetramethrin	4.37	15.7	F/F	30 - 150
Trans-Nonachlor	69.3	72.5	P/P	50 - 150
Triclosan Methyl	75.8	80.0	P/P	50 - 150
Trifluralin	71.6	74.5	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P403054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	102	119	P/P	70 - 121

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P403054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alachlor	98.2	113	P/P	70 - 119
Ametryn	114	125	P/P	61 - 135
Atrazine	98.9	103	P/P	76 - 123
Atrazine Desethyl	85.8	87.1	P/P	35 - 140
Azinphos Methyl	127	125	P/P	57 - 163
Azoxystrobin	106	112	P/P	43 - 231
Bromacil	54.6	58.0	P/P	42 - 123
Butylate	60.5	66.7	P/P	34 - 92.0
Caffeine	75.3	71.0	P/P	70 - 130
Carbophenothion	99.7	113	P/P	61 - 121
Carfentrazone Ethyl	114	120	P/P	62 - 139
Chlorpyrifos Ethyl	95.3	105	P/P	67 - 121
Chlorpyrifos Methyl	98.2	113	P/P	67 - 120
Cyanazine	141	153	P/P	20 - 226
Demeton	102	99.8	P/P	35 - 125
Diazinon	107	106	P/P	70 - 122
Difenoconazole	154	157	P/P	56 - 186
Dimethenamid	80.4	94.7	P/P	67 - 119
Disulfoton	90.2	89.3	P/P	47 - 120
Dithiopyr	96.7	103	P/P	67 - 118
EPTC	64.9	65.9	P/P	33 - 90.0
Ethion	85.5	92.5	P/P	40 - 133
Ethoprop	87.4	94.1	P/P	61 - 121
Fenamiphos	94.6	100	P/P	31 - 139
Fenbuconazole	112	118	P/P	66 - 141
Fipronil	104	113	P/P	62 - 129
Fipronil Desulfinyl	109	125	P/P	59 - 126
Fipronil Sulfide	88.4	103	P/P	63 - 117
Fipronil Sulfone	84.9	92.4	P/P	57 - 117
Fluazifop-P-butyl	95.7	106	P/P	63 - 124
Fludioxonil	108	114	P/P	63 - 123
Flumioxazin	136	138	P/P	34 - 245
Flutolanil	97.0	102	P/P	56 - 131
Fluxapyroxad	93.0	91.1	P/P	57 - 117
Fonofos	85.7	93.7	P/P	61 - 116
Hexazinone	102	104	P/P	55 - 138
Imazalil	85.0	103	P/P	33 - 143
Iprodione	103	111	P/P	59 - 118
Malathion	108	114	P/P	62 - 138
Metaxyl	100	108	P/P	24 - 147
Metolachlor	94.5	101	P/P	68 - 118
Metribuzin	86.8	90.8	P/P	20 - 239
Mevinphos	85.1	82.7	P/P	46 - 124
Molinate	59.3	65.8	P/P	46 - 100
Myclobutanil	102	106	P/P	32 - 149
Naled	42.5	43.7	P/P	32 - 95.0
Norflurazon	97.6	105	P/P	57 - 127
Oxadiazon	88.4	92.2	P/P	63 - 118
Oxyfluorfen	109	109	P/P	69 - 137
Parathion Ethyl	89.6	98.2	P/P	70 - 113
Parathion Methyl	103	116	P/P	71 - 130
Pendimethalin	75.1	81.4	P/P	55 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P403054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	78.8	78.2	P/P	46 - 125
Prodiamine	36.4	35.6	P/P	20 - 141
Prometon	95.2	94.5	P/P	54 - 122
Prometryn	96.0	101	P/P	66 - 124
Pronamide	101	98.6	P/P	79 - 122
Propiconazole	95.0	105	P/P	61 - 126
Pyriproxyfen	95.3	97.7	P/P	52 - 131
Simazine	101	112	P/P	75 - 128
Sulfentrazone	93.4	96.9	P/P	20 - 132
Tebuconazole	83.6	90.5	P/P	20 - 116
Terbufos	103	109	P/P	61 - 117
Terbuthylazine	96.0	96.2	P/P	74 - 116

Reference Method: EPA 8276
Batch ID: P402975

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	103	99.8	P/P	56 - 117
Toxaphene	73.5	71.4	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P402974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	78.6		P	40 - 150
AMPA	82.4		P	40 - 150
Endothall	68.1		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	107		P	40 - 150
Sucralose	90.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P403027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	92.8		P	40 - 150
2,4,5-T	106		P	40 - 150
Acetaminophen	80.2		P	30 - 150
Acetamiprid	96.1		P	40 - 150
Afidopyropen	83.2		P	40 - 150
Bentazon	119		P	30 - 150
Benzovindiflupyr	94.7		P	40 - 150
Carbamazepine	85.8		P	40 - 150
Clothianidin	98.4		P	40 - 150
Dinotefuran	84.8		P	40 - 150
Diuron	79.0		P	40 - 150
Fenuron	94.5		P	40 - 150
Fluridone	100		P	40 - 150
Hydrocodone	77.7		P	40 - 150
Ibuprofen	54.6		P	40 - 150
Imazapyr	85.0		P	40 - 150
Imidacloprid	97.3		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B**Batch ID: P403027**

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Linuron	83.9		P	40 - 150
Mandestrobin	95.1		P	40 - 150
MCPPP	91.7		P	40 - 150
Naproxen	98.6		P	40 - 150
Primidone	84.9		P	40 - 150
Pyraclostrobin	87.5		P	40 - 150
Thiamethoxam	92.7		P	40 - 150
Tolfenpyrad	51.5		P	30 - 150
Triclopyr	97.3		P	40 - 150

Reference Method: EPA 8321B**Batch ID: P403053**

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	85.4		P	40 - 150
Aldicarb	85.4		P	30 - 150
Aldicarb Sulfone	96.8		P	40 - 150
Aldicarb Sulfoxide	92.9		P	40 - 150
Carbaryl	84.8		P	40 - 150
Carbofuran	88.1		P	40 - 150
Methiocarb	77.2		P	40 - 150
Methomyl	93.8		P	40 - 150
Oxamyl	88.8		P	40 - 150
Propoxur	89.7		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P402975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2271901	Aldrin	60.2	60.3	P/P	20 - 170
2271901	Alpha-BHC	88.2	86.4	P/P	50 - 170
2271901	Alpha-Chlordane	67.0	71.4	P/P	50 - 170
2271901	Beta-BHC	98.4	102	P/P	50 - 170
2271901	Beta-Cyfluthrin	106	112	P/P	50 - 170
2271901	Bifenthrin	128	125	P/P	40 - 170
2271901	Chlorothalonil	39.8	42.5	P/P	20 - 170
2271901	Cis-Nonachlor	75.8	74.4	P/P	50 - 170
2271901	Cypermethrin	111	112	P/P	50 - 170
2271901	Dacthal	76.6	99.6	P/P	50 - 170
2271901	DDD-p,p'	84.9	90.5	P/P	50 - 170
2271901	DDE-p,p'	71.4	74.9	P/P	50 - 170
2271901	DDT-p,p'	73.6	73.4	P/P	50 - 170
2271901	Delta-BHC	105	100	P/P	50 - 170
2271901	Deltamethrin	115	121	P/P	50 - 170
2271901	Dichlobenil	71.3	76.9	P/P	40 - 170
2271901	Dicofol	62.5	63.6	P/P	50 - 170
2271901	Dieldrin	78.1	86.4	P/P	50 - 170
2271901	Endosulfan I	73.2	75.6	P/P	50 - 170
2271901	Endosulfan II	74.4	76.9	P/P	50 - 170
2271901	Endosulfan Sulfate	71.8	76.9	P/P	50 - 170
2271901	Endrin	34.6	36.2	F/F	50 - 170
2271901	Endrin Aldehyde	41.6	42.2	F/F	50 - 170
2271901	Endrin Ketone	108	113	P/P	50 - 170
2271901	Esfenvalerate	99.7	101	P/P	50 - 180
2271901	Ethalfuralin	67.7	62.0	P/P	50 - 170
2271901	Fenpropathrin	80.8	83.5	P/P	50 - 170
2271901	Gamma-BHC	94.1	93.1	P/P	50 - 170
2271901	Gamma-Chlordane	72.4	74.1	P/P	50 - 170
2271901	Heptachlor	68.2	68.1	P/P	50 - 170
2271901	Heptachlor Epoxide	69.6	88.3	P/P	50 - 170
2271901	Hexachlorobenzene	73.2	73.8	P/P	50 - 170
2271901	Kepone	70.0	75.9	P/P	30 - 180
2271901	Lambda-Cyhalothrin	136	131	P/P	50 - 200
2271901	Methoxychlor	91.0	87.8	P/P	50 - 170
2271901	MGK-264	77.7	85.6	P/P	30 - 170
2271901	Mirex	69.5	69.7	P/P	50 - 180
2271901	Permethrin	129	130	P/P	50 - 170
2271901	Phenothrin	90.5	91.2	P/P	20 - 170
2271901	Piperonyl Butoxide	0.0719	0.712	F/F	50 - 170
2271901	Prallethrin	50.5	50.6	P/P	30 - 170
2271901	Tau-Fluvalinate	95.1	101	P/P	40 - 170
2271901	Tetramethrin	81.5	82.8	P/P	30 - 170
2271901	Trans-Nonachlor	65.2	70.7	P/P	50 - 170
2271901	Triclosan Methyl	72.3	77.0	P/P	50 - 170
2271901	Trifluralin	75.4	74.2	P/P	50 - 170

Reference Method: EPA 8270E
Batch ID: P403054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272438	Acetochlor	95.0	104	P/P	66 - 122

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P403054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272438	Alachlor	95.6	101	P/P	65 - 122
2272438	Ametryn	82.0	97.1	P/P	45 - 173
2272438	Atrazine Desethyl	99.7	111	P/P	25 - 150
2272438	Azinphos Methyl	102	102	P/P	44 - 174
2272438	Azoxystrobin	136	131	P/P	10 - 268
2272438	Bromacil	97.3	106	P/P	31 - 145
2272438	Butylate	57.8	57.8	P/P	15 - 97.0
2272438	Caffeine	60.8	62.2	F/F	70 - 130
2272438	Carbophenothion	101	93.7	P/P	42 - 129
2272438	Carfentrazone Ethyl	98.4	81.0	P/P	62 - 145
2272438	Chlorpyrifos Ethyl	96.7	95.3	P/P	60 - 124
2272438	Chlorpyrifos Methyl	107	101	P/P	66 - 119
2272438	Cyanazine	133	125	P/P	17 - 225
2272438	Demeton	124	133	P/P	36 - 142
2272438	Diazinon	114	113	P/P	70 - 128
2272438	Difenoconazole	138	137	P/P	33 - 222
2272438	Dimethenamid	75.9	77.3	P/P	54 - 125
2272438	Disulfoton	101	97.3	P/P	49 - 133
2272438	Dithiopyr	96.1	90.4	P/P	55 - 123
2272438	EPTC	57.0	53.4	P/P	19 - 91.0
2272438	Ethion	66.9	59.7	P/P	13 - 143
2272438	Ethoprop	104	98.5	P/P	49 - 144
2272438	Fenamiphos	67.0	66.2	P/P	32 - 136
2272438	Fenbuconazole	98.8	101	P/P	73 - 148
2272438	Fipronil	105	100	P/P	57 - 129
2272438	Fipronil Desulfinyl	115	105	P/P	49 - 127
2272438	Fipronil Sulfide	99.9	96.4	P/P	44 - 127
2272438	Fipronil Sulfone	99.4	94.7	P/P	35 - 126
2272438	Fluazifop-P-butyl	99.3	93.4	P/P	67 - 129
2272438	Fludioxonil	95.2	95.0	P/P	61 - 126
2272438	Flumioxazin	137	141	P/P	38 - 279
2272438	Flutolanil	83.1	86.9	P/P	55 - 136
2272438	Fluxapyroxad	82.1	82.2	P/P	33 - 140
2272438	Fonofos	108	104	P/P	58 - 125
2272438	Imazalil	166	160	P/P	10 - 221
2272438	Iprodione	86.3	89.2	P/P	32 - 140
2272438	Malathion	114	112	P/P	52 - 138
2272438	Metalaxyl	107	106	P/P	46 - 134
2272438	Metribuzin	61.8	100	P/P	16 - 272
2272438	Mevinphos	93.8	98.7	P/P	45 - 140
2272438	Molinate	61.2	51.9	P/P	41 - 103
2272438	Myclobutanil	96.0	97.6	P/P	60 - 134
2272438	Naled	36.5	40.4	P/P	20 - 113
2272438	Oxyfluorfen	112	118	P/P	66 - 176
2272438	Parathion Ethyl	103	103	P/P	57 - 132
2272438	Parathion Methyl	118	114	P/P	59 - 156
2272438	Pendimethalin	91.1	90.3	P/P	59 - 129
2272438	Phorate	89.3	88.7	P/P	47 - 136
2272438	Prodiamine	45.1	46.9	P/P	10 - 159
2272438	Prometon	88.0	87.3	P/P	59 - 127
2272438	Prometryn	99.5	103	P/P	59 - 129
2272438	Pronamide	92.7	96.2	P/P	65 - 145

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P403054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272438	Propiconazole	79.5	80.2	P/P	28 - 165
2272438	Pyriproxyfen	67.5	75.7	P/P	21 - 180
2272438	Simazine	112	98.3	P/P	63 - 147
2272438	Sulfentrazone	84.1	79.8	P/P	32 - 136
2272438	Tebuconazole	62.5	55.8	P/P	10 - 117
2272438	Terbufos	129	123	P/P	61 - 131
2272438	Terbutylazine	97.0	98.9	P/P	62 - 126

Reference Method: EPA 8276
Batch ID: P402975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270935	Chlordane	82.6	78.9	P/P	47 - 128
2270935	Toxaphene	60.6	76.9	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P402974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2271284	Acesulfame K	56.7	57.9	P/P	40 - 150
2271284	AMPA	91.0	91.7	P/P	40 - 150
2271284	Endothall	101	103	P/P	40 - 150
2271284	Glufosinate	107	106	P/P	40 - 150
2271284	Glyphosate	108	110	P/P	40 - 150
2271284	Sucralose	93.6	94.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P403027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2271466	2,4-D	105	96.8	P/P	40 - 150
2271466	2,4,5-T	111	101	P/P	40 - 150
2271466	Acetaminophen	81.5	84.3	P/P	30 - 150
2271466	Acetamiprid	91.7	84.6	P/P	40 - 150
2271466	Afidopyropen	111	99.8	P/P	40 - 150
2271466	Benzovindiflupyr	92.0	95.7	P/P	40 - 150
2271466	Carbamazepine	88.7	92.1	P/P	40 - 150
2271466	Clothianidin	68.7	70.6	P/P	40 - 150
2271466	Diuron	89.8	87.8	P/P	40 - 150
2271466	Fenuron	99.3	95.6	P/P	40 - 150
2271466	Fluridone	94.8	100	P/P	40 - 150
2271466	Hydrocodone	98.2	87.5	P/P	40 - 150
2271466	Ibuprofen	70.5	65.9	P/P	40 - 150
2271466	Imidacloprid	92.3	91.1	P/P	40 - 150
2271466	Linuron	99.3	77.0	P/P	40 - 150
2271466	Mandestrobin	104	101	P/P	40 - 150
2271466	MCPP	118	110	P/P	40 - 150
2271466	Naproxen	94.3	87.8	P/P	40 - 150
2271466	Primidone	32.3	50.6	F/P	40 - 150
2271466	Pyraclostrobin	91.3	87.3	P/P	40 - 150
2271466	Thiamethoxam	99.5	90.5	P/P	40 - 150
2271466	Tolfenpyrad	52.1	52.1	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P403027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2271466	Triclopyr	106	96.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P403053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2271283	3-Hydroxycarbofuran	73.4	70.7	P/P	40 - 150
2271283	Aldicarb	50.8	50.2	P/P	30 - 150
2271283	Aldicarb Sulfone	80.0	82.3	P/P	40 - 150
2271283	Aldicarb Sulfoxide	40.0	40.4	P/P	40 - 150
2271283	Carbaryl	73.5	74.0	P/P	40 - 150
2271283	Carbofuran	79.6	77.8	P/P	40 - 150
2271283	Methiocarb	77.5	75.9	P/P	40 - 150
2271283	Methomyl	90.1	88.5	P/P	40 - 150
2271283	Oxamyl	84.2	82.6	P/P	40 - 150
2271283	Propoxur	80.6	81.7	P/P	40 - 150

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P402975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2271901	Aldrin	0.0674	Spike	P	0 - 30
2271901	Alpha-BHC	2.06	Spike	P	0 - 30
2271901	Alpha-Chlordane	5.52	Spike	P	0 - 30
2271901	Beta-BHC	3.25	Spike	P	0 - 30
2271901	Beta-Cyfluthrin	5.90	Spike	P	0 - 30
2271901	Bifenthrin	2.46	Spike	P	0 - 30
2271901	Chlorothalonil	6.55	Spike	P	0 - 50
2271901	Cis-Nonachlor	1.83	Spike	P	0 - 30
2271901	Cypermethrin	1.09	Spike	P	0 - 30
2271901	Dacthal	26.2	Spike	P	0 - 30
2271901	DDD-p,p'	6.38	Spike	P	0 - 30
2271901	DDE-p,p'	4.78	Spike	P	0 - 30
2271901	DDT-p,p'	0.271	Spike	P	0 - 30
2271901	Delta-BHC	4.91	Spike	P	0 - 30
2271901	Deltamethrin	4.67	Spike	P	0 - 30
2271901	Dichlobenil	7.57	Spike	P	0 - 30
2271901	Dicofol	1.75	Spike	P	0 - 30
2271901	Dieldrin	4.33	Spike	P	0 - 30
2271901	Endosulfan I	3.32	Spike	P	0 - 30
2271901	Endosulfan II	3.42	Spike	P	0 - 30
2271901	Endosulfan Sulfate	6.88	Spike	P	0 - 30
2271901	Endrin	4.64	Spike	P	0 - 30
2271901	Endrin Aldehyde	1.39	Spike	P	0 - 30
2271901	Endrin Ketone	4.46	Spike	P	0 - 30
2271901	Esfenvalerate	1.41	Spike	P	0 - 30
2271901	Ethalfuralin	8.80	Spike	P	0 - 30
2271901	Fenpropathrin	3.30	Spike	P	0 - 30
2271901	Gamma-BHC	1.09	Spike	P	0 - 30
2271901	Gamma-Chlordane	1.65	Spike	P	0 - 30
2271901	Heptachlor	0.133	Spike	P	0 - 30
2271901	Heptachlor Epoxide	8.68	Spike	P	0 - 30
2271901	Hexachlorobenzene	0.803	Spike	P	0 - 30
2271901	Kepone	8.07	Spike	P	0 - 30
2271901	Lambda-Cyhalothrin	3.72	Spike	P	0 - 30
2271901	Methoxychlor	3.56	Spike	P	0 - 30
2271901	MGK-264	9.70	Spike	P	0 - 30
2271901	Mirex	0.274	Spike	P	0 - 30
2271901	Permethrin	0.905	Spike	P	0 - 30
2271901	Phenothrin	0.750	Spike	P	0 - 30
2271901	Prallethrin	0.236	Spike	P	0 - 30
2271901	Tau-Fluvalinate	5.57	Spike	P	0 - 30
2271901	Tetramethrin	1.57	Spike	P	0 - 30
2271901	Trans-Nonachlor	7.01	Spike	P	0 - 30
2271901	Triclosan Methyl	6.31	Spike	P	0 - 30
2271901	Trifluralin	1.59	Spike	P	0 - 30
LFB	Aldrin	5.42	LCS	P	0 - 30
LFB	Alpha-BHC	0.519	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.74	LCS	P	0 - 30
LFB	Beta-BHC	5.36	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	0.624	LCS	P	0 - 30
LFB	Bifenthrin	12.0	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P402975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlorothalonil	17.4	LCS	P	0 - 50
LFB	Cis-Nonachlor	2.71	LCS	P	0 - 30
LFB	Cypermethrin	3.84	LCS	P	0 - 30
LFB	Dacthal	0.792	LCS	P	0 - 30
LFB	DDD-p,p'	5.19	LCS	P	0 - 30
LFB	DDE-p,p'	4.32	LCS	P	0 - 30
LFB	DDT-p,p'	6.98	LCS	P	0 - 30
LFB	Delta-BHC	2.47	LCS	P	0 - 30
LFB	Deltamethrin	2.68	LCS	P	0 - 30
LFB	Dichlobenil	8.71	LCS	P	0 - 30
LFB	Dicofol	15.0	LCS	P	0 - 30
LFB	Dieldrin	3.13	LCS	P	0 - 30
LFB	Endosulfan I	8.50	LCS	P	0 - 30
LFB	Endosulfan II	0.277	LCS	P	0 - 30
LFB	Endosulfan Sulfate	6.54	LCS	P	0 - 30
LFB	Endrin	1.58	LCS	P	0 - 30
LFB	Endrin Aldehyde	5.60	LCS	P	0 - 30
LFB	Endrin Ketone	6.15	LCS	P	0 - 30
LFB	Esfenvalerate	0.682	LCS	P	0 - 30
LFB	Ethalfuralin	6.98	LCS	P	0 - 30
LFB	Fenpropathrin	1.40	LCS	P	0 - 30
LFB	Gamma-BHC	0.0474	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.48	LCS	P	0 - 30
LFB	Heptachlor	2.61	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.119	LCS	P	0 - 30
LFB	Hexachlorobenzene	4.64	LCS	P	0 - 30
LFB	Kepone	19.2	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	1.25	LCS	P	0 - 30
LFB	Methoxychlor	0.973	LCS	P	0 - 30
LFB	MGK-264	0.170	LCS	P	0 - 30
LFB	Mirex	3.46	LCS	P	0 - 30
LFB	Permethrin	2.29	LCS	P	0 - 30
LFB	Phenothrin	4.67	LCS	P	0 - 30
LFB	Prallethrin	0.821	LCS	P	0 - 30
LFB	Tau-Fluvalinate	3.19	LCS	P	0 - 30
LFB	Tetramethrin	113	LCS	F	0 - 30
LFB	Trans-Nonachlor	4.50	LCS	P	0 - 30
LFB	Triclosan Methyl	5.38	LCS	P	0 - 30
LFB	Trifluralin	4.01	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P403054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272438	Acetochlor	9.03	Spike	P	0 - 30
2272438	Alachlor	5.65	Spike	P	0 - 30
2272438	Ametryn	8.93	Spike	P	0 - 30
2272438	Atrazine	1.04	Spike	P	0 - 30
2272438	Atrazine Desethyl	10.7	Spike	P	0 - 30
2272438	Azinphos Methyl	0.373	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P403054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272438	Azoxystrobin	3.44	Spike	P	0 - 30
2272438	Bromacil	8.69	Spike	P	0 - 30
2272438	Butylate	0.0130	Spike	P	0 - 30
2272438	Caffeine	1.40	Spike	P	0 - 30
2272438	Carbophenothion	7.90	Spike	P	0 - 30
2272438	Carfentrazone Ethyl	19.4	Spike	P	0 - 30
2272438	Chlorpyrifos Ethyl	1.51	Spike	P	0 - 30
2272438	Chlorpyrifos Methyl	6.41	Spike	P	0 - 30
2272438	Cyanazine	6.10	Spike	P	0 - 30
2272438	Demeton	7.58	Spike	P	0 - 30
2272438	Diazinon	0.538	Spike	P	0 - 30
2272438	Difenoconazole	1.14	Spike	P	0 - 30
2272438	Dimethenamid	1.84	Spike	P	0 - 30
2272438	Disulfoton	3.66	Spike	P	0 - 30
2272438	Dithiopyr	5.67	Spike	P	0 - 30
2272438	EPTC	6.58	Spike	P	0 - 30
2272438	Ethion	11.4	Spike	P	0 - 30
2272438	Ethoprop	5.56	Spike	P	0 - 30
2272438	Fenamiphos	1.09	Spike	P	0 - 30
2272438	Fenbuconazole	1.58	Spike	P	0 - 30
2272438	Fipronil	4.28	Spike	P	0 - 30
2272438	Fipronil Desulfinyf	8.76	Spike	P	0 - 30
2272438	Fipronil Sulfide	3.23	Spike	P	0 - 30
2272438	Fipronil Sulfone	4.79	Spike	P	0 - 30
2272438	Fluazifop-P-butyl	6.14	Spike	P	0 - 30
2272438	Fludioxonil	0.218	Spike	P	0 - 30
2272438	Flumioxazin	3.23	Spike	P	0 - 30
2272438	Flutolanil	4.47	Spike	P	0 - 30
2272438	Fluxapyroxad	0.0859	Spike	P	0 - 30
2272438	Fonofos	3.46	Spike	P	0 - 30
2272438	Hexazinone	3.45	Spike	P	0 - 30
2272438	Imazalil	4.12	Spike	P	0 - 30
2272438	Iprodione	3.29	Spike	P	0 - 30
2272438	Malathion	2.08	Spike	P	0 - 30
2272438	Metalaxyl	0.679	Spike	P	0 - 30
2272438	Metolachlor	1.85	Spike	P	0 - 30
2272438	Metribuzin	29.0	Spike	P	0 - 30
2272438	Mevinphos	5.01	Spike	P	0 - 30
2272438	Molinate	16.5	Spike	P	0 - 30
2272438	Myclobutanil	1.62	Spike	P	0 - 30
2272438	Naled	10.2	Spike	P	0 - 30
2272438	Norflurazon	3.36	Spike	P	0 - 30
2272438	Oxadiazon	3.59	Spike	P	0 - 30
2272438	Oxyfluorfen	5.06	Spike	P	0 - 30
2272438	Parathion Ethyl	0.413	Spike	P	0 - 30
2272438	Parathion Methyl	3.31	Spike	P	0 - 30
2272438	Pendimethalin	0.908	Spike	P	0 - 30
2272438	Phorate	0.722	Spike	P	0 - 30
2272438	Prodiamine	4.08	Spike	P	0 - 30
2272438	Prometon	0.755	Spike	P	0 - 30
2272438	Prometryn	3.27	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P403054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272438	Pronamide	3.72	Spike	P	0 - 30
2272438	Propiconazole	0.561	Spike	P	0 - 30
2272438	Pyriproxyfen	11.5	Spike	P	0 - 30
2272438	Simazine	9.86	Spike	P	0 - 30
2272438	Sulfentrazone	3.47	Spike	P	0 - 30
2272438	Tebuconazole	11.3	Spike	P	0 - 30
2272438	Terbufos	4.68	Spike	P	0 - 30
2272438	Terbuthylazine	1.98	Spike	P	0 - 30
LFB	Acetochlor	15.5	LCS	P	0 - 30
LFB	Alachlor	13.8	LCS	P	0 - 30
LFB	Ametryn	9.32	LCS	P	0 - 30
LFB	Atrazine	3.86	LCS	P	0 - 30
LFB	Atrazine Desethyl	1.57	LCS	P	0 - 30
LFB	Azinphos Methyl	1.26	LCS	P	0 - 30
LFB	Azoxystrobin	4.81	LCS	P	0 - 30
LFB	Bromacil	5.93	LCS	P	0 - 30
LFB	Butylate	9.84	LCS	P	0 - 30
LFB	Caffeine	5.83	LCS	P	0 - 30
LFB	Carbophenothion	12.0	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	5.61	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	9.34	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	14.2	LCS	P	0 - 30
LFB	Cyanazine	8.55	LCS	P	0 - 30
LFB	Demeton	2.62	LCS	P	0 - 30
LFB	Diazinon	1.70	LCS	P	0 - 30
LFB	Difenoconazole	2.38	LCS	P	0 - 30
LFB	Dimethenamid	16.3	LCS	P	0 - 30
LFB	Disulfoton	0.999	LCS	P	0 - 30
LFB	Dithiopyr	6.09	LCS	P	0 - 30
LFB	EPTC	1.50	LCS	P	0 - 30
LFB	Ethion	7.88	LCS	P	0 - 30
LFB	Ethoprop	7.48	LCS	P	0 - 30
LFB	Fenamiphos	5.70	LCS	P	0 - 30
LFB	Fenbuconazole	5.52	LCS	P	0 - 30
LFB	Fipronil	8.49	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	13.3	LCS	P	0 - 30
LFB	Fipronil Sulfide	15.0	LCS	P	0 - 30
LFB	Fipronil Sulfone	8.38	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	10.5	LCS	P	0 - 30
LFB	Fludioxonil	5.16	LCS	P	0 - 30
LFB	Flumioxazin	1.19	LCS	P	0 - 30
LFB	Flutolanil	5.23	LCS	P	0 - 30
LFB	Fluxapyroxad	2.10	LCS	P	0 - 30
LFB	Fonofos	8.94	LCS	P	0 - 30
LFB	Hexazinone	1.42	LCS	P	0 - 30
LFB	Imazalil	19.0	LCS	P	0 - 30
LFB	Iprodione	7.38	LCS	P	0 - 30
LFB	Malathion	5.94	LCS	P	0 - 30
LFB	Metalaxyl	6.82	LCS	P	0 - 30
LFB	Metolachlor	6.98	LCS	P	0 - 30
LFB	Metribuzin	4.53	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P403054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mevinphos	2.89	LCS	P	0 - 30
LFB	Molinate	10.3	LCS	P	0 - 30
LFB	Myclobutanil	4.36	LCS	P	0 - 30
LFB	Naled	2.78	LCS	P	0 - 30
LFB	Norflurazon	7.00	LCS	P	0 - 30
LFB	Oxadiazon	4.20	LCS	P	0 - 30
LFB	Oxyfluorfen	0.0148	LCS	P	0 - 30
LFB	Parathion Ethyl	9.13	LCS	P	0 - 30
LFB	Parathion Methyl	11.3	LCS	P	0 - 30
LFB	Pendimethalin	7.99	LCS	P	0 - 30
LFB	Phorate	0.844	LCS	P	0 - 30
LFB	Prodiamine	2.26	LCS	P	0 - 30
LFB	Prometon	0.658	LCS	P	0 - 30
LFB	Prometryn	4.99	LCS	P	0 - 30
LFB	Pronamide	2.67	LCS	P	0 - 30
LFB	Propiconazole	10.4	LCS	P	0 - 30
LFB	Pyriproxyfen	2.52	LCS	P	0 - 30
LFB	Simazine	10.0	LCS	P	0 - 30
LFB	Sulfentrazone	3.61	LCS	P	0 - 30
LFB	Tebuconazole	7.94	LCS	P	0 - 30
LFB	Terbufos	5.63	LCS	P	0 - 30
LFB	Terbutylazine	0.119	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P402975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270935	Chlordane	4.47	Spike	P	0 - 30
2270935	Toxaphene	23.7	Spike	P	0 - 30
LFB	Chlordane	3.32	LCS	P	0 - 30
LFB	Toxaphene	2.88	LCS	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P402974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2271284	Acesulfame K	2.14	Spike	P	0 - 30
2271284	AMPA	0.789	Spike	P	0 - 30
2271284	Endothall	2.32	Spike	P	0 - 30
2271284	Glufosinate	0.745	Spike	P	0 - 30
2271284	Glyphosate	2.50	Spike	P	0 - 30
2271284	Sucralose	0.483	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P403027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2271466	2,4-D	7.65	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P403027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2271466	2,4,5-T	9.54	Spike	P	0 - 30
2271466	Acetaminophen	3.38	Spike	P	0 - 30
2271466	Acetamiprid	8.00	Spike	P	0 - 30
2271466	Afidopyropen	10.3	Spike	P	0 - 30
2271466	Bentazon	11.5	Spike	P	0 - 30
2271466	Benzovindiflupyr	3.81	Spike	P	0 - 30
2271466	Carbamazepine	3.45	Spike	P	0 - 30
2271466	Clothianidin	2.74	Spike	P	0 - 30
2271466	Dinotefuran	7.69	Spike	P	0 - 30
2271466	Diuron	2.22	Spike	P	0 - 30
2271466	Fenuron	3.73	Spike	P	0 - 30
2271466	Fluridone	5.58	Spike	P	0 - 30
2271466	Hydrocodone	11.5	Spike	P	0 - 30
2271466	Ibuprofen	6.74	Spike	P	0 - 30
2271466	Imazapyr	11.0	Spike	P	0 - 30
2271466	Imidacloprid	1.18	Spike	P	0 - 30
2271466	Linuron	25.3	Spike	P	0 - 30
2271466	Mandestrobin	3.39	Spike	P	0 - 30
2271466	MCPP	6.59	Spike	P	0 - 30
2271466	Naproxen	7.15	Spike	P	0 - 30
2271466	Primidone	44.0	Spike	F	0 - 30
2271466	Pyraclostrobin	4.52	Spike	P	0 - 30
2271466	Thiamethoxam	9.47	Spike	P	0 - 30
2271466	Tolfenpyrad	0.0501	Spike	P	0 - 30
2271466	Triclopyr	8.83	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P403053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2271283	3-Hydroxycarbofuran	3.70	Spike	P	0 - 30
2271283	Aldicarb	1.21	Spike	P	0 - 30
2271283	Aldicarb Sulfone	2.92	Spike	P	0 - 30
2271283	Aldicarb Sulfoxide	0.828	Spike	P	0 - 30
2271283	Carbaryl	0.718	Spike	P	0 - 30
2271283	Carbofuran	2.30	Spike	P	0 - 30
2271283	Methiocarb	2.17	Spike	P	0 - 30
2271283	Methomyl	1.82	Spike	P	0 - 30
2271283	Oxamyl	1.98	Spike	P	0 - 30
2271283	Propoxur	1.36	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2271386
Field Sample ID: G5CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	85.0	P	30 - 160

Lab Sample ID: 2271387
Field Sample ID: FB_08232021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	86.8	P	30 - 160

Lab Sample ID: 2271388
Field Sample ID: G5CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	69.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.5	P	30 - 160
EPA 8321B	Diuron-d6	79.2	P	30 - 160
EPA 8321B	Endothall-d6	149	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	35.9	P	30 - 160
EPA 8321B	Primidone-d5	35.1	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Lab Sample ID: 2271389
Field Sample ID: FB_08232021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	91.0	P	30 - 160
EPA 8321B	Diuron-d6	89.8	P	30 - 160
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.5	P	30 - 160
EPA 8321B	Primidone-d5	85.2	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2271397
Field Sample ID: G5CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	64.2	P	35 - 120
EPA 8270E	Tetrachloro-m-xylene	70.1	P	30 - 110
EPA 8276	Decachlorobiphenyl	57.7	P	29 - 92.0
EPA 8276	PCNB	72.4	P	43 - 134

Lab Sample ID: 2271398
Field Sample ID: FB_08232021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	52.3	P	35 - 120
EPA 8270E	Tetrachloro-m-xylene	67.8	P	30 - 110
EPA 8276	Decachlorobiphenyl	50.0	P	29 - 92.0

Quality Assurance Report Surrogates

Lab Sample ID: 2271398
Field Sample ID: FB_08232021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	PCNB	66.9	P	43 - 134

Lab Sample ID: 2271399
Field Sample ID: G5CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.4	P	20 - 200
EPA 8270E	Simazine-d10	126	P	73 - 135
EPA 8270E	Terbufos-d10	132	F	58 - 130

Lab Sample ID: 2271400
Field Sample ID: FB_08232021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	78.2	P	20 - 200
EPA 8270E	Simazine-d10	109	P	73 - 135
EPA 8270E	Terbufos-d10	105	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A107519

Included Lab Sample IDs: 2271388, 2271389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	78.1		P	60 - 160
Glufosinate	99.7		P	60 - 160
Glyphosate	101		P	60 - 160

Reference Method: EPA 8270E

Run ID: A107525

Included Lab Sample IDs: 2271397, 2271398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.8		P	80 - 120
Alpha-BHC	97.9		P	80 - 120
Alpha-Chlordane	97.1		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	108		P	80 - 120
Bifenthrin	103		P	80 - 120
Chlorothalonil	97.7		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	106		P	80 - 120
Dacthal	96.5		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	96.4		P	80 - 120
DDT-p,p'	98.6		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	97.4		P	80 - 120
Dichlobenil	98.0		P	80 - 120
Dicofol	91.7		P	80 - 120
Dieldrin	87.9		P	80 - 120
Endosulfan I	99.6		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	97.9		P	80 - 120
Endrin Ketone	99.7		P	80 - 120
Esfenvalerate	97.3		P	80 - 120
Ethalfuralin	96.8		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	109		P	80 - 120
Gamma-Chlordane	97.8		P	80 - 120
Heptachlor	98.4		P	80 - 120
Heptachlor Epoxide	97.5		P	80 - 120
Hexachlorobenzene	96.4		P	80 - 120
Kepone	77.3*		F	80 - 120
Lambda-Cyhalothrin	110		P	80 - 120
Methoxychlor	93.6		P	80 - 120
MGK-264	98.1		P	80 - 120
Mirex	104		P	80 - 120
Permethrin	103		P	80 - 120
Phenothrin	105		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A107525

Included Lab Sample IDs: 2271397, 2271398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tetramethrin	114		P	80 - 120
Trans-Nonachlor	96.7		P	80 - 120
Triclosan Methyl	95.8		P	80 - 120
Trifluralin	97.8		P	80 - 120

Reference Method: EPA 8321B

Run ID: A107530

Included Lab Sample IDs: 2271388, 2271389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	61.3	65.2	P/P	60 - 160
Endothall	69.1	73.4	P/P	60 - 160
Sucralose	94.7	90.6	P/P	60 - 160

Reference Method: EPA 8276

Run ID: A107636

Included Lab Sample IDs: 2271397, 2271398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.1		P	80 - 120
Toxaphene	97.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A107657

Included Lab Sample IDs: 2271399, 2271400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.2		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	110		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	91.9		P	80 - 120
Azinphos Methyl	98.9		P	80 - 120
Azoxystrobin	98.3		P	80 - 120
Bromacil	97.3		P	80 - 120
Butylate	99.9		P	80 - 120
Caffeine	81.8		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	106		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Cyanazine	110		P	80 - 120
Demeton	89.1		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	90.5		P	80 - 120
Dimethenamid	101		P	80 - 120
Disulfoton	88.0		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	99.3		P	80 - 120
Ethion	97.4		P	80 - 120
Ethoprop	97.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A107657

Included Lab Sample IDs: 2271399, 2271400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenamiphos	99.5		P	80 - 120
Fenbuconazole	95.2		P	80 - 120
Fipronil	94.7		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	99.1		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	98.1		P	80 - 120
Flumioxazin	88.4		P	80 - 120
Flutolanil	103		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	104		P	80 - 120
Hexazinone	97.9		P	80 - 120
Imazalil	94.6		P	80 - 120
Iprodione	103		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	108		P	80 - 120
Metolachlor	107		P	80 - 120
Metribuzin	96.7		P	80 - 120
Mevinphos	90.6		P	80 - 120
Molinate	98.9		P	80 - 120
Myclobutanil	104		P	80 - 120
Naled	102		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	98.7		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	94.4		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	99.9		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	91.3		P	80 - 120
Propiconazole	105		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	107		P	80 - 120
Sulfentrazone	101		P	80 - 120
Tebuconazole	110		P	80 - 120
Terbufos	100		P	80 - 120
Terbutylazine	101		P	80 - 120

Reference Method: EPA 8321B

Run ID: A107667

Included Lab Sample IDs: 2271386, 2271387

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	116	115	P/P	60 - 150
Aldicarb	103	101	P/P	60 - 150
Aldicarb Sulfone	100	112	P/P	50 - 150
Aldicarb Sulfoxide	97.9	97.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A107667

Included Lab Sample IDs: 2271386, 2271387

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbaryl	112	115	P/P	60 - 150
Carbofuran	104	105	P/P	50 - 150
Methiocarb	97.7	107	P/P	50 - 150
Methomyl	103	98.3	P/P	50 - 150
Oxamyl	94.4	102	P/P	50 - 150
Propoxur	108	117	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A107670

Included Lab Sample IDs: 2271388, 2271389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	115	116	P/P	50 - 150
2,4-D	94.3	115	P/P	50 - 150
2,4,5-T	114	93.3	P/P	50 - 150
2,4,5-T	92.4	114	P/P	50 - 150
Acetaminophen	105	106	P/P	60 - 160
Acetaminophen	106	110	P/P	60 - 160
Acetamiprid	106	111	P/P	50 - 150
Acetamiprid	111	111	P/P	50 - 150
Afidopyropen	106	109	P/P	50 - 150
Afidopyropen	98.6	106	P/P	50 - 150
Bentazon	110	104	P/P	50 - 160
Bentazon	94.6	110	P/P	50 - 160
Benzovindiflupyr	104	108	P/P	50 - 150
Benzovindiflupyr	108	110	P/P	50 - 150
Carbamazepine	108	115	P/P	60 - 150
Carbamazepine	115	116	P/P	60 - 150
Clothianidin	109	118	P/P	60 - 150
Clothianidin	112	109	P/P	60 - 150
Dinotefuran	101	103	P/P	50 - 150
Dinotefuran	103	101	P/P	50 - 150
Diuron	103	104	P/P	60 - 160
Diuron	104	105	P/P	60 - 160
Fenuron	101	104	P/P	60 - 150
Fenuron	96.9	101	P/P	60 - 150
Fluridone	105	110	P/P	60 - 160
Fluridone	107	105	P/P	60 - 160
Hydrocodone	101	100	P/P	60 - 150
Hydrocodone	89.8	101	P/P	60 - 150
Ibuprofen	70.7	80.0	P/P	50 - 160
Ibuprofen	80.0	68.9	P/P	50 - 160
Imazapyr	93.2	89.9	P/P	50 - 150
Imazapyr	95.8	93.2	P/P	50 - 150
Imidacloprid	113	110	P/P	60 - 150
Imidacloprid	92.5	113	P/P	60 - 150
Linuron	100	97.0	P/P	60 - 150
Linuron	97.0	99.3	P/P	60 - 150
Mandestrobin	107	111	P/P	50 - 150
Mandestrobin	111	105	P/P	50 - 150
MCP	97.2	110	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A107670

Included Lab Sample IDs: 2271388, 2271389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MCPD	98.7	97.2	P/P	50 - 150
Naproxen	105	93.6	P/P	50 - 160
Naproxen	93.6	120	P/P	50 - 160
Primidone	109	117	P/P	60 - 150
Primidone	111	109	P/P	60 - 150
Pyraclostrobin	106	112	P/P	60 - 150
Pyraclostrobin	112	112	P/P	60 - 150
Thiamethoxam	101	111	P/P	50 - 150
Thiamethoxam	109	101	P/P	50 - 150
Tolfenpyrad	109	112	P/P	60 - 150
Tolfenpyrad	112	107	P/P	60 - 150
Triclopyr	101	115	P/P	50 - 150
Triclopyr	115	112	P/P	50 - 150

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	MS
						SMP	
EPA 8270E	Acetochlor	102	119	95.0	104	15.5	9.03
	Alachlor	98.2	113	95.6	101	13.8	5.65
	Aldrin	53.3	56.3	60.2	60.3	5.42	0.0674
	Alpha-BHC	88.5	89.0	88.2	86.4	0.519	2.06
	Alpha-Chlordane	72.1	70.1	67.0	71.4	2.74	5.52
	Ametryn	114	125	82.0	97.1	9.32	8.93
	Atrazine	98.9	103			3.86	1.04
	Atrazine Desethyl	85.8	87.1	99.7	111	1.57	10.7
	Azinphos Methyl	127	125	102	102	1.26	0.373
	Azoxystrobin	106	112	136	131	4.81	3.44
	Beta-BHC	117	111	98.4	102	5.36	3.25
	Beta-Cyfluthrin	90.8	91.3	106	112	0.624	5.90
	Bifenthrin	79.4	89.6	128	125	12.0	2.46
	Bromacil	54.6	58.0	97.3	106	5.93	8.69
	Butylate	60.5	66.7	57.8	57.8	9.84	0.0130
	Caffeine	75.3	71.0	60.8	62.2	5.83	1.40
	Carbophenothion	99.7	113	101	93.7	12.0	7.90
	Carfentrazone Ethyl	114	120	98.4	81.0	5.61	19.4
	Chlorothalonil	39.2	46.7	39.8	42.5	17.4	6.55
	Chlorpyrifos Ethyl	95.3	105	96.7	95.3	9.34	1.51
	Chlorpyrifos Methyl	98.2	113	107	101	14.2	6.41
	Cis-Nonachlor	79.5	77.4	75.8	74.4	2.71	1.83
	Cyanazine	141	153	133	125	8.55	6.10
	Cypermethrin	92.3	88.8	111	112	3.84	1.09
	Dacthal	87.1	87.8	76.6	99.6	0.792	26.2
	DDD-p,p'	85.7	81.4	84.9	90.5	5.19	6.38
	DDE-p,p'	71.8	74.9	71.4	74.9	4.32	4.78
	DDT-p,p'	73.4	68.5	73.6	73.4	6.98	0.271
	Delta-BHC	124	121	105	100	2.47	4.91
	Deltamethrin	95.2	97.8	115	121	2.68	4.67
	Demeton	102	99.8	124	133	2.62	7.58
	Diazinon	107	106	114	113	1.70	0.538
	Dichlobenil	76.2	69.9	71.3	76.9	8.71	7.57
	Dicofol	79.9	68.8	62.5	63.6	15.0	1.75
	Dieldrin	60.0	61.9	78.1	86.4	3.13	4.33
	Difenoconazole	154	157	138	137	2.38	1.14
	Dimethenamid	80.4	94.7	75.9	77.3	16.3	1.84
	Disulfoton	90.2	89.3	101	97.3	0.999	3.66
	Dithiopyr	96.7	103	96.1	90.4	6.09	5.67
	Endosulfan I	78.9	85.9	73.2	75.6	8.50	3.32
	Endosulfan II	84.4	84.6	74.4	76.9	0.277	3.42
	Endosulfan Sulfate	101	95.0	71.8	76.9	6.54	6.88
	Endrin	4.52	4.44	34.6	36.2	1.58	4.64
	Endrin Aldehyde	45.9	43.4	41.6	42.2	5.60	1.39
	Endrin Ketone	160	151	108	113	6.15	4.46
	EPTC	64.9	65.9	57.0	53.4	1.50	6.58
	Esfenvalerate	84.4	85.0	99.7	101	0.682	1.41
	Ethalfuralin	50.6	54.2	67.7	62.0	6.98	8.80
	Ethion	85.5	92.5	66.9	59.7	7.88	11.4
	Ethoprop	87.4	94.1	104	98.5	7.48	5.56
	Fenamiphos	94.6	100	67.0	66.2	5.70	1.09
	Fenbuconazole	112	118	98.8	101	5.52	1.58
	Fenpropathrin	56.0	56.8	80.8	83.5	1.40	3.30
	Fipronil	104	113	105	100	8.49	4.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Fipronil Desulfinyl	109	125	115	105	13.3		8.76
	Fipronil Sulfide	88.4	103	99.9	96.4	15.0		3.23
	Fipronil Sulfone	84.9	92.4	99.4	94.7	8.38		4.79
	Fluazifop-P-butyl	95.7	106	99.3	93.4	10.5		6.14
	Fludioxonil	108	114	95.2	95.0	5.16		0.218
	Flumioxazin	136	138	137	141	1.19		3.23
	Flutolanil	97.0	102	83.1	86.9	5.23		4.47
	Fluxapyroxad	91.1	93.0	82.1	82.2	2.10		0.0859
	Fonofos	85.7	93.7	108	104	8.94		3.46
	Gamma-BHC	92.3	92.3	94.1	93.1	0.0474		1.09
	Gamma-Chlordane	72.3	73.4	72.4	74.1	1.48		1.65
	Heptachlor	64.4	66.2	68.2	68.1	2.61		0.133
	Heptachlor Epoxide	79.8	79.9	69.6	88.3	0.119		8.68
	Hexachlorobenzene	75.2	71.8	73.2	73.8	4.64		0.803
	Hexazinone	102	104			1.42		3.45
	Imazalil	85.0	103	166	160	19.0		4.12
	Iprodione	103	111	86.3	89.2	7.38		3.29
	Kepone	82.9	68.3	70.0	75.9	19.2		8.07
	Lambda-Cyhalothrin	97.1	98.3	136	131	1.25		3.72
	Malathion	108	114	114	112	5.94		2.08
	Metalaxyl	100	108	107	106	6.82		0.679
	Methoxychlor	81.2	82.0	91.0	87.8	0.973		3.56
	Metolachlor	94.5	101			6.98		1.85
	Metribuzin	86.8	90.8	61.8	100	4.53		29.0
	Mevinphos	85.1	82.7	93.8	98.7	2.89		5.01
	MGK-264	81.9	82.0	77.7	85.6	0.170		9.70
	Mirex	64.6	62.4	69.5	69.7	3.46		0.274
	Molinate	59.3	65.8	61.2	51.9	10.3		16.5
	Myclobutanil	102	106	96.0	97.6	4.36		1.62
	Naled	42.5	43.7	36.5	40.4	2.78		10.2
	Norflurazon	97.6	105			7.00		3.36
	Oxadiazon	88.4	92.2			4.20		3.59
	Oxyfluorfen	109	109	112	118	0.0148		5.06
	Parathion Ethyl	89.6	98.2	103	103	9.13		0.413
	Parathion Methyl	103	116	118	114	11.3		3.31
	Pendimethalin	75.1	81.4	91.1	90.3	7.99		0.908
	Permethrin	98.7	96.4	129	130	2.29		0.905
	Phenothrin	65.4	62.4	90.5	91.2	4.67		0.750
	Phorate	78.8	78.2	89.3	88.7	0.844		0.722
	Piperonyl Butoxide	0.534	0.375	0.0719	0.712			
	Prallethrin	27.3	27.1	50.5	50.6	0.821		0.236
	Prodiamine	36.4	35.6	45.1	46.9	2.26		4.08
	Prometon	95.2	94.5	88.0	87.3	0.658		0.755
	Prometryn	96.0	101	99.5	103	4.99		3.27
	Pronamide	101	98.6	92.7	96.2	2.67		3.72
	Propiconazole	95.0	105	79.5	80.2	10.4		0.561
	Pyriproxyfen	95.3	97.7	67.5	75.7	2.52		11.5
	Simazine	101	112	112	98.3	10.0		9.86
	Sulfentrazone	93.4	96.9	84.1	79.8	3.61		3.47
	Tau-Fluvalinate	82.8	80.2	95.1	101	3.19		5.57
	Tebuconazole	83.6	90.5	62.5	55.8	7.94		11.3
	Terbufos	103	109	129	123	5.63		4.68
	Terbuthylazine	96.0	96.2	97.0	98.9	0.119		1.98
	Tetramethrin	4.37	15.7	81.5	82.8	113		1.57

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Trans-Nonachlor	69.3	72.5	65.2	70.7	4.50	7.01
	Triclosan Methyl	75.8	80.0	72.3	77.0	5.38	6.31
	Trifluralin	71.6	74.5	75.4	74.2	4.01	1.59
EPA 8276	Chlordane	103	99.8	82.6	78.9	3.32	4.47
	Toxaphene	73.5	71.4	60.6	76.9	2.88	23.7
EPA 8321B	2,4-D	92.8		105	96.8		7.65
	2,4,5-T	106		111	101		9.54
	3-Hydroxycarbofuran	85.4		73.4	70.7		3.70
	Acesulfame K	78.6		56.7	57.9		2.14
	Acetaminophen	80.2		81.5	84.3		3.38
	Acetamiprid	96.1		91.7	84.6		8.00
	Afidopyropen	83.2		111	99.8		10.3
	Aldicarb	85.4		50.8	50.2		1.21
	Aldicarb Sulfone	96.8		80.0	82.3		2.92
	Aldicarb Sulfoxide	92.9		40.0	40.4		0.828
	AMPA	82.4		91.0	91.7		0.789
	Bentazon	119					11.5
	Benzovindiflupyr	94.7		92.0	95.7		3.81
	Carbamazepine	85.8		88.7	92.1		3.45
	Carbaryl	84.8		73.5	74.0		0.718
	Carbofuran	88.1		79.6	77.8		2.30
	Clothianidin	98.4		68.7	70.6		2.74
	Dinotefuran	84.8					7.69
	Diuron	79.0		89.8	87.8		2.22
	Endothall	68.1		101	103		2.32
	Fenuron	94.5		99.3	95.6		3.73
	Fluridone	100		94.8	100		5.58
	Glufosinate	105		107	106		0.745
	Glyphosate	107		108	110		2.50
	Hydrocodone	77.7		98.2	87.5		11.5
	Ibuprofen	54.6		70.5	65.9		6.74
	Imazapyr	85.0					11.0
	Imidacloprid	97.3		92.3	91.1		1.18
	Linuron	83.9		99.3	77.0		25.3
	Mandestrobin	95.1		104	101		3.39
	MCPP	91.7		118	110		6.59
	Methiocarb	77.2		77.5	75.9		2.17
	Methomyl	93.8		90.1	88.5		1.82
	Naproxen	98.6		94.3	87.8		7.15
	Oxamyl	88.8		84.2	82.6		1.98
	Primidone	84.9		32.3	50.6		44.0
	Propoxur	89.7		80.6	81.7		1.36
	Pyraclostrobin	87.5		91.3	87.3		4.52
	Sucralose	90.2		93.6	94.0		0.483
	Thiamethoxam	92.7		99.5	90.5		9.47
	Tolfenpyrad	51.5		52.1	52.1		0.0501
	Triclopyr	97.3		106	96.9		8.83

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2271397, 2271398
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2271399, 2271400

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2271397, 2271398
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2271386, 2271387
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2271388, 2271389

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	08/24/2021	08/26/2021 08:00	Rasheda Ghaffari	08/28/2021 06:07	Arthur Maknenko	2271397
	08/24/2021	08/26/2021 08:00	Rasheda Ghaffari	08/28/2021 06:36	Arthur Maknenko	2271398
	08/24/2021	08/30/2021 08:00	Rasheda Ghaffari	09/01/2021 18:36	Michael Poppell	2271399
	08/24/2021	08/30/2021 08:00	Rasheda Ghaffari	09/01/2021 19:02	Michael Poppell	2271400
EPA 8276	08/24/2021	08/26/2021 08:00	Rasheda Ghaffari	09/01/2021 09:41	Julie Wi	2271397
	08/24/2021	08/26/2021 08:00	Rasheda Ghaffari	09/01/2021 10:37	Julie Wi	2271398
EPA 8321B	08/24/2021	08/27/2021 09:00	Juyoung Kim	08/27/2021 11:07	Juyoung Kim	2271389
	08/24/2021	08/27/2021 09:00	Juyoung Kim	08/27/2021 13:16	Juyoung Kim	2271388
	08/24/2021	08/27/2021 09:00	Juyoung Kim	08/27/2021 23:54	Juyoung Kim	2271388
	08/24/2021	08/27/2021 09:00	Juyoung Kim	08/28/2021 00:08	Juyoung Kim	2271389
	08/24/2021	08/27/2021 14:00	Hoor Shaik	08/28/2021 00:03	Juyoung Kim	2271388
	08/24/2021	08/27/2021 14:00	Hoor Shaik	08/28/2021 01:13	Juyoung Kim	2271389
	08/24/2021	08/30/2021 09:00	Hoor Shaik	09/08/2021 02:16	Juyoung Kim	2271386
	08/24/2021	08/30/2021 09:00	Hoor Shaik	09/08/2021 02:51	Juyoung Kim	2271387