Chemical Analysis Report

NE-DIST-2021-04-02-02

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

Event Description: **LSJR South West 2021**
Request ID: **RQ-2021-03-01-23**
Customer: **NE-DIST**
Project ID: **SMP**

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8800 Baymeadows Way West
Suite 100
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Certified by: Colin Wright, Program Administrator

Date Certified: 27-APR-2021 16:25

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: Little Black Creek at SR 220 **Collection Date/Time: 04/01/2021 10:05**

Field ID: 20030667 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235834	EPA 8321B	Aldicarb	0.020	U	ug/L	P395859	
		Aldicarb Sulfone	0.0020	U	ug/L	P395859	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P395859	
		Carbaryl	0.0020	U	ug/L	P395859	
		Carbofuran	0.0020	U	ug/L	P395859	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P395859	
		Methiocarb	0.0020	U	ug/L	P395859	
		Methomyl	0.0020	U	ug/L	P395859	
		Oxamyl	0.0020	U	ug/L	P395859	
		Propoxur	0.0020	U	ug/L	P395859	
2235835		2,4-D	0.0057	I	ug/L	P395928	MS
		Acesulfame K	0.10	U	ug/L	P395858	MS
		2,4,5-T	0.0040	U	ug/L	P395928	
		AMPA	0.10	U	ug/L	P395858	
		Sucralose	4.6		ug/L	P395858	
		Acetaminophen	0.0080	U	ug/L	P395928	MS
		Acetamiprid	0.0020	U	ug/L	P395928	
		Endothall	0.25	U	ug/L	P395858	
		Glufosinate	0.10	U	ug/L	P395858	
		Glyphosate	0.10	U	ug/L	P395858	MS
		Afidopyropen	0.0020	U	ug/L	P395928	
		Bentazon	0.10		ug/L	P395928	MS
		Benzovindiflupyr	0.0020	U	ug/L	P395928	
		Carbamazepine	0.0052		ug/L	P395928	
		Clothianidin	0.0021	I	ug/L	P395928	
		Dinotefuran	0.0022	I	ug/L	P395928	
		Diuron	0.0021	I	ug/L	P395928	
		Fenuron	0.016	U	ug/L	P395928	
		Fluridone	0.020		ug/L	P395928	
		Imazapyr	0.52		ug/L	P395928	
		Hydrocodone	0.0020	U	ug/L	P395928	
		Ibuprofen	0.020	U	ug/L	P395928	
		Imidacloprid	0.021		ug/L	P395928	
		Linuron	0.0040	U	ug/L	P395928	
		Mandestrobin	0.0020	U	ug/L	P395928	
		MCPP	0.0020	U	ug/L	P395928	
		Naproxen	0.0080	U	ug/L	P395928	
		Primidone	0.018		ug/L	P395928	
		Pyraclostrobin	0.0020	U	ug/L	P395928	
		Thiamethoxam	0.0020	U	ug/L	P395928	
		Tolfenpyrad	0.0020	U	ug/L	P395928	
		Triclopyr	0.0040	U	ug/L	P395928	
2235838	EPA 8270E	Aldrin	0.77	U	ng/L	P395945	
		Dieldrin	0.41	U	ng/L	P395945	

Field ID: 20030667 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235838	EPA 8270E	Alpha-BHC	2.1	U	ng/L	P395945	
		Kepone**	5.7	U	ng/L	P395945	
		Alpha-Chlordane	1.0	U	ng/L	P395945	
		Beta-BHC	8.2	U	ng/L	P395945	
		Beta-Cyfluthrin**	15	U	ng/L	P395945	
		Bifenthrin**	4.1	U	ng/L	P395945	
		Delta-BHC	8.2	U	ng/L	P395945	
		Gamma-BHC	8.2	U	ng/L	P395945	
		Chlorothalonil	2.1	U	ng/L	P395945	
		Cis-Nonachlor**	1.0	U	ng/L	P395945	
		Cypermethrin	21	U	ng/L	P395945	
		Dacthal**	1.0	U	ng/L	P395945	
		DDD-p,p'	5.1	U	ng/L	P395945	
		DDE-p,p'	5.1	U	ng/L	P395945	
		DDT-p,p'	6.2	U	ng/L	P395945	
		Deltamethrin**	21	U	ng/L	P395945	
		Dicofol	31	U	ng/L	P395945	
		Endosulfan I	4.1	U	ng/L	P395945	
		Endosulfan II	4.1	U	ng/L	P395945	
		Endosulfan Sulfate	2.1	U	ng/L	P395945	
		Endrin	2.1	U	ng/L	P395945	
		Endrin Aldehyde	2.1	U	ng/L	P395945	
		Endrin Ketone	2.1	U	ng/L	P395945	
		Ethalfluralin**	3.1	U	ng/L	P395945	
		Gamma-Chlordane	1.0	U	ng/L	P395945	
		Dichlobenil**	2.1	U	ng/L	P395945	
		Esfenvalerate**	21	U	ng/L	P395945	
		Fenpropathrin**	10	U	ng/L	P395945	
		Heptachlor	1.5	U	ng/L	P395945	
		Heptachlor Epoxide	2.1	U	ng/L	P395945	
		Hexachlorobenzene	2.1	U	ng/L	P395945	
		Lambda-Cyhalothrin**	15	U	ng/L	P395945	
		Methoxychlor	4.1	U	ng/L	P395945	
		Mirex	2.1	U	ng/L	P395945	
		MGK-264**	3.1	UJ	ng/L	P395945	LCS, MS, RPD
		Permethrin	10	U	ng/L	P395945	
		Phenothrin**	31	U	ng/L	P395945	
		Piperonyl Butoxide**	1.5	U	ng/L	P395945	
		Prallethrin**	26	UJ	ng/L	P395945	LCS, RPD
		Tau-Fluvalinate**	3.6	U	ng/L	P395945	
		Tetramethrin**	8.2	U	ng/L	P395945	
		Trans-Nonachlor**	1.0	U	ng/L	P395945	
		Triclosan Methyl**	1.0	U	ng/L	P395945	
		Trifluralin	2.6	U	ng/L	P395945	

Field ID: 20030667 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235838	EPA 8276	Chlordane	5.1	U	ng/L	P395945	
		Toxaphene	31	U	ng/L	P395945	
2235839	EPA 8270E	Acetochlor	0.26	U	ng/L	P395927	
		Alachlor	0.26	U	ng/L	P395927	
		Ametryn	1.1	I	ng/L	P395927	
		Atrazine	46		ng/L	P395927	
		Atrazine Desethyl	8.7		ng/L	P395927	
		Azinphos Methyl	2.1	U	ng/L	P395927	
		Azoxystrobin**	0.53	U	ng/L	P395927	
		Bromacil	0.64	I	ng/L	P395927	
		Butylate	0.42	U	ng/L	P395927	
		Caffeine**	10	I	ng/L	P395927	
		Carbophenothion	0.53	U	ng/L	P395927	
		Carfentrazone Ethyl**	0.11	U	ng/L	P395927	
		Chlorpyrifos Ethyl	0.90	I	ng/L	P395927	
		Chlorpyrifos Methyl	0.053	U	ng/L	P395927	
		Cyanazine	3.4	U	ng/L	P395927	
		Demeton	1.6	U	ng/L	P395927	
		Diazinon	0.13	U	ng/L	P395927	
		Difenoconazole**	0.63	U	ng/L	P395927	
		Dimethenamid**	0.11	U	ng/L	P395927	
		Disulfoton	0.53	U	ng/L	P395927	
		Dithiopyr**	0.34	I	ng/L	P395927	
		EPTC	1.3	U	ng/L	P395927	RPD
		Ethion	0.16	U	ng/L	P395927	
		Ethoprop	0.11	U	ng/L	P395927	
		Fenamiphos	0.53	U	ng/L	P395927	
		Fenbuconazole**	0.13	U	ng/L	P395927	
		Fipronil	0.32	I	ng/L	P395927	
		Fipronil Desulfinyl**	1.3		ng/L	P395927	
		Fipronil Sulfide	0.63		ng/L	P395927	
		Fipronil Sulfone	1.4		ng/L	P395927	
		Fluazifop-P-butyl**	0.11	U	ng/L	P395927	
		Fludioxonil**	0.13	U	ng/L	P395927	
		Flumioxazin**	3.0	I	ng/L	P395927	
		Flutolanil**	0.11	U	ng/L	P395927	
		Fluxapyroxad**	0.48		ng/L	P395927	
		Fonofos	0.21	U	ng/L	P395927	
		Hexazinone	0.53	U	ng/L	P395927	
		Imazalil**	0.79	U	ng/L	P395927	
		Iprodione**	0.63	U	ng/L	P395927	
		Malathion	0.37	U	ng/L	P395927	
		Metalaxyl	0.79	U	ng/L	P395927	
		Metolachlor	0.77	I	ng/L	P395927	
		Metribuzin	3.4	U	ng/L	P395927	

Field ID: 20030667 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235839	EPA 8270E	Mevinphos	1.1	U	ng/L	P395927	
		Molinate	0.32	U	ng/L	P395927	
		Myclobutanil**	1.7		ng/L	P395927	
		Naled**	1.6	U	ng/L	P395927	
		Norflurazon	0.53	U	ng/L	P395927	
		Oxadiazon	2.9		ng/L	P395927	
		Oxyfluorfen**	0.16	U	ng/L	P395927	
		Parathion Ethyl	0.26	U	ng/L	P395927	
		Parathion Methyl	0.58	U	ng/L	P395927	
		Pendimethalin	1.1	U	ng/L	P395927	
		Phorate	0.55	U	ng/L	P395927	
		Prodiamine**	0.18	U	ng/L	P395927	RPD
		Prometon	0.95	U	ng/L	P395927	
		Prometryn	0.21	U	ng/L	P395927	
		Pronamide**	0.77		ng/L	P395927	
		Propiconazole**	2.0	I	ng/L	P395927	
		Pyriproxyfen**	0.13	U	ng/L	P395927	
		Simazine	16		ng/L	P395927	
		Sulfentrazone**	7.4		ng/L	P395927	
		Tebuconazole**	0.53	U	ng/L	P395927	
		Terbufos	0.11	U	ng/L	P395927	
		Terbuthylazine	0.45	U	ng/L	P395927	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr 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.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked.

Sample Location: Field Blank **Collection Date/Time: 04/01/2021 10:20**

Field ID: FB_03162021 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235836	EPA 8321B	Aldicarb	0.020	U	ug/L	P395859	
		Aldicarb Sulfone	0.0020	U	ug/L	P395859	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P395859	
		Carbaryl	0.0020	U	ug/L	P395859	
		Carbofuran	0.0020	U	ug/L	P395859	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P395859	
		Methiocarb	0.0020	U	ug/L	P395859	
		Methomyl	0.0020	U	ug/L	P395859	
		Oxamyl	0.0020	U	ug/L	P395859	
		Propoxur	0.0020	U	ug/L	P395859	
2235837		2,4-D	0.0020	U	ug/L	P395928	MS
		Acesulfame K	0.10	U	ug/L	P395858	MS
		2,4,5-T	0.0040	U	ug/L	P395928	
		AMPA	0.10	U	ug/L	P395858	
		Sucralose	0.010	U	ug/L	P395858	
		Acetaminophen	0.0080	U	ug/L	P395928	MS
		Acetamiprid	0.0020	U	ug/L	P395928	
		Endothall	0.25	U	ug/L	P395858	
		Glufosinate	0.10	U	ug/L	P395858	
		Glyphosate	0.10	U	ug/L	P395858	MS
		Afidopyropen	0.0020	U	ug/L	P395928	
		Bentazon	8.0E-04	U	ug/L	P395928	MS
		Benzovindiflupyr	0.0020	U	ug/L	P395928	
		Carbamazepine	8.0E-04	U	ug/L	P395928	
		Clothianidin	0.0020	U	ug/L	P395928	
		Dinotefuran	0.0020	U	ug/L	P395928	
		Diuron	0.0020	U	ug/L	P395928	
		Fenuron	0.016	U	ug/L	P395928	
		Fluridone	8.0E-04	U	ug/L	P395928	
		Imazapyr	0.0040	U	ug/L	P395928	
		Hydrocodone	0.0020	U	ug/L	P395928	
		Ibuprofen	0.020	U	ug/L	P395928	
		Imidacloprid	0.0020	U	ug/L	P395928	
		Linuron	0.0040	U	ug/L	P395928	
		Mandestrobin	0.0020	U	ug/L	P395928	
		MCPP	0.0020	U	ug/L	P395928	
		Naproxen	0.0080	U	ug/L	P395928	
		Primidone	0.0040	U	ug/L	P395928	
		Pyraclostrobin	0.0020	U	ug/L	P395928	
		Thiamethoxam	0.0020	U	ug/L	P395928	
		Tolfenpyrad	0.0020	U	ug/L	P395928	
		Triclopyr	0.0040	U	ug/L	P395928	
2235840	EPA 8270E	Aldrin	0.81	U	ng/L	P395945	
		Dieldrin	0.43	U	ng/L	P395945	

Field ID: FB_03162021 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235840	EPA 8270E	Alpha-BHC	2.2	U	ng/L	P395945	
		Kepone**	6.0	U	ng/L	P395945	
		Alpha-Chlordane	1.1	U	ng/L	P395945	
		Beta-BHC	8.7	U	ng/L	P395945	
		Beta-Cyfluthrin**	16	U	ng/L	P395945	
		Bifenthrin**	4.3	U	ng/L	P395945	
		Delta-BHC	8.7	U	ng/L	P395945	
		Gamma-BHC	8.7	U	ng/L	P395945	
		Chlorothalonil	2.2	U	ng/L	P395945	
		Cis-Nonachlor**	1.1	U	ng/L	P395945	
		Cypermethrin	22	U	ng/L	P395945	
		Dacthal**	1.1	U	ng/L	P395945	
		DDD-p,p'	5.4	U	ng/L	P395945	
		DDE-p,p'	5.4	U	ng/L	P395945	
		DDT-p,p'	6.5	U	ng/L	P395945	
		Deltamethrin**	22	U	ng/L	P395945	
		Dicofol	33	U	ng/L	P395945	
		Endosulfan I	4.3	U	ng/L	P395945	
		Endosulfan II	4.3	U	ng/L	P395945	
		Endosulfan Sulfate	2.2	U	ng/L	P395945	
		Endrin	2.2	U	ng/L	P395945	
		Endrin Aldehyde	2.2	U	ng/L	P395945	
		Endrin Ketone	2.2	U	ng/L	P395945	
		Ethalfluralin**	3.3	U	ng/L	P395945	
		Gamma-Chlordane	1.1	U	ng/L	P395945	
		Dichlobenil**	2.2	U	ng/L	P395945	
		Esfenvalerate**	22	U	ng/L	P395945	
		Fenpropathrin**	11	U	ng/L	P395945	
		Heptachlor	1.6	U	ng/L	P395945	
		Heptachlor Epoxide	2.2	U	ng/L	P395945	
		Hexachlorobenzene	2.2	U	ng/L	P395945	
		Lambda-Cyhalothrin**	16	U	ng/L	P395945	
		Methoxychlor	4.3	U	ng/L	P395945	
		Mirex	2.2	U	ng/L	P395945	
		MGK-264**	3.3	UJ	ng/L	P395945	LCS, MS, RPD
		Permethrin	11	U	ng/L	P395945	
		Phenothrin**	33	U	ng/L	P395945	
		Piperonyl Butoxide**	1.6	U	ng/L	P395945	
		Prallethrin**	27	UJ	ng/L	P395945	LCS, RPD
		Tau-Fluvalinate**	3.8	U	ng/L	P395945	
		Tetramethrin**	8.7	U	ng/L	P395945	
		Trans-Nonachlor**	1.1	U	ng/L	P395945	
		Triclosan Methyl**	1.1	U	ng/L	P395945	
		Trifluralin	2.7	U	ng/L	P395945	

Field ID: FB_03162021 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235840	EPA 8276	Chlordane	5.4	U	ng/L	P395945	
		Toxaphene	33	U	ng/L	P395945	
2235841	EPA 8270E	Acetochlor	0.24	U	ng/L	P395927	
		Alachlor	0.24	U	ng/L	P395927	
		Ametryn	0.58	U	ng/L	P395927	
		Atrazine	0.24	U	ng/L	P395927	
		Atrazine Desethyl	1.4	U	ng/L	P395927	
		Azinphos Methyl	1.9	U	ng/L	P395927	
		Azoxystrobin**	0.48	U	ng/L	P395927	
		Bromacil	0.48	U	ng/L	P395927	
		Butylate	0.38	U	ng/L	P395927	
		Caffeine**	7.2	U	ng/L	P395927	
		Carbophenothion	0.48	U	ng/L	P395927	
		Carfentrazone Ethyl**	0.096	U	ng/L	P395927	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P395927	
		Chlorpyrifos Methyl	0.048	U	ng/L	P395927	
		Cyanazine	3.1	U	ng/L	P395927	
		Demeton	1.4	U	ng/L	P395927	
		Diazinon	0.12	U	ng/L	P395927	
		Difenoconazole**	0.58	U	ng/L	P395927	
		Dimethenamid**	0.096	U	ng/L	P395927	
		Disulfoton	0.48	U	ng/L	P395927	
		Dithiopyr**	0.17	U	ng/L	P395927	
		EPTC	1.2	U	ng/L	P395927	RPD
		Ethion	0.14	U	ng/L	P395927	
		Ethoprop	0.096	U	ng/L	P395927	
		Fenamiphos	0.48	U	ng/L	P395927	
		Fenbuconazole**	0.12	U	ng/L	P395927	
		Fipronil	0.24	U	ng/L	P395927	
		Fipronil Desulfinyl**	0.12	U	ng/L	P395927	
		Fipronil Sulfide	0.14	U	ng/L	P395927	
		Fipronil Sulfone	0.14	U	ng/L	P395927	
		Fluazifop-P-butyl**	0.096	U	ng/L	P395927	
		Fludioxonil**	0.12	U	ng/L	P395927	
		Flumioxazin**	1.7	U	ng/L	P395927	
		Flutolanil**	0.096	U	ng/L	P395927	
		Fluxapyroxad**	0.096	U	ng/L	P395927	
		Fonofos	0.19	U	ng/L	P395927	
		Hexazinone	0.48	U	ng/L	P395927	
		Imazalil**	0.72	U	ng/L	P395927	
		Iprodione**	0.58	U	ng/L	P395927	
		Malathion	0.34	U	ng/L	P395927	
		Metalaxyl	0.72	U	ng/L	P395927	
		Metolachlor	0.34	U	ng/L	P395927	
		Metribuzin	3.1	U	ng/L	P395927	

Field ID: FB_03162021 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2235841	EPA 8270E	Mevinphos	1.0	U	ng/L	P395927	
		Molinate	0.29	U	ng/L	P395927	
		Myclobutanil**	0.24	U	ng/L	P395927	
		Naled**	1.4	U	ng/L	P395927	
		Norflurazon	0.48	U	ng/L	P395927	
		Oxadiazon	0.30	UQJ	ng/L	P396895	SUR
		Oxyfluorfen**	0.14	U	ng/L	P395927	
		Parathion Ethyl	0.24	U	ng/L	P395927	
		Parathion Methyl	0.53	U	ng/L	P395927	
		Pendimethalin	0.96	U	ng/L	P395927	
		Phorate	0.50	U	ng/L	P395927	
		Prodiamine**	0.17	U	ng/L	P395927	RPD
		Prometon	0.86	U	ng/L	P395927	
		Prometryn	0.19	U	ng/L	P395927	
		Pronamide**	0.14	U	ng/L	P395927	
		Propiconazole**	0.48	U	ng/L	P395927	
		Pyriproxyfen**	0.12	U	ng/L	P395927	
		Simazine	0.48	U	ng/L	P395927	
		Sulfentrazone**	0.48	U	ng/L	P395927	
		Tebuconazole**	0.48	U	ng/L	P395927	
		Terbufos	0.096	U	ng/L	P395927	
		Terbuthylazine	0.41	U	ng/L	P395927	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr 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.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Sample expired for oxadiazon due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P395927

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P395927

Component	Result	Code	Units
Pendimethalin	1.0	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P395945

Component	Result	Code	Units
Aldrin	0.75	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	8.0	U	ng/L
Beta-Cyfluthrin	15	U	ng/L
Bifenthrin	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
Dacthal	1.0	U	ng/L
DDD-p,p'	5.0	U	ng/L
DDE-p,p'	5.0	U	ng/L
DDT-p,p'	6.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Deltamethrin	20	U	ng/L
Dichlobenil	2.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Esfenvalerate	20	U	ng/L
Ethalfluralin	3.0	U	ng/L
Fenpropathrin	10	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Kepone	5.5	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P395945

Component	Result	Code	Units
Methoxychlor	4.0	U	ng/L
MGK-264	3.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Piperonyl Butoxide	1.5	U	ng/L
Prallethrin	25	U	ng/L
Tau-Fluvalinate	3.5	U	ng/L
Tetramethrin	8.0	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Triclosan Methyl	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270E
Batch ID: P396895

Component	Result	Code	Units
Oxadiazon	0.60	U	ng/L

Reference Method: EPA 8276
Batch ID: P395945

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

Reference Method: EPA 8321B
Batch ID: P395858

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: P395859

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
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P395928

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.019	I	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.14		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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P395927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	93.4	93.6	P/P	70 - 121
Alachlor	92.2	94.7	P/P	70 - 119
Ametryn	63.0	78.4	P/P	61 - 135
Atrazine	92.7	98.9	P/P	76 - 123
Atrazine Desethyl	108	98.8	P/P	35 - 140
Azinphos Methyl	131	127	P/P	57 - 163
Azoxystrobin	181	159	P/P	43 - 231
Bromacil	89.5	80.9	P/P	42 - 123
Butylate	60.8	47.7	P/P	34 - 92.0
Caffeine	75.6	70.6	P/P	70 - 130
Carbophenothion	86.8	94.6	P/P	61 - 121
Carfentrazone Ethyl	102	107	P/P	62 - 139
Chlorpyrifos Ethyl	77.4	90.8	P/P	67 - 121
Chlorpyrifos Methyl	91.1	94.4	P/P	67 - 120
Cyanazine	126	122	P/P	20 - 226
Demeton	75.5	78.0	P/P	35 - 125
Diazinon	99.5	99.8	P/P	70 - 122
Difenoconazole	149	145	P/P	56 - 186
Dimethenamid	87.3	92.4	P/P	67 - 119
Disulfoton	80.1	89.2	P/P	47 - 120
Dithiopyr	84.4	89.0	P/P	67 - 118
EPTC	62.7	48.6	P/P	33 - 90.0
Ethion	79.0	92.6	P/P	40 - 133
Ethoprop	91.0	87.0	P/P	61 - 121
Fenamiphos	89.4	97.7	P/P	31 - 139
Fenbuconazole	114	107	P/P	66 - 141
Fipronil	97.8	95.8	P/P	62 - 129
Fipronil Desulfinyl	95.8	98.3	P/P	59 - 126
Fipronil Sulfide	82.5	86.5	P/P	63 - 117
Fipronil Sulfone	79.0	90.7	P/P	57 - 117
Fluazifop-P-butyl	96.4	98.1	P/P	63 - 124
Fludioxonil	101	104	P/P	63 - 123
Flumioxazin	165	175	P/P	34 - 245
Flutolanil	92.0	94.3	P/P	56 - 131
Fluxapyroxad	86.2	89.9	P/P	57 - 117
Fonofos	85.0	84.5	P/P	61 - 116
Hexazinone	92.1	99.7	P/P	55 - 138
Imazalil	87.5	112	P/P	33 - 143
Iprodione	95.9	99.9	P/P	59 - 118
Malathion	98.0	100	P/P	62 - 138
Metalaxyl	96.4	97.2	P/P	24 - 147
Metolachlor	86.0	90.2	P/P	68 - 118
Metribuzin	108	105	P/P	20 - 239
Mevinphos	74.9	71.7	P/P	46 - 124
Molinate	67.4	56.5	P/P	46 - 100
Myclobutanil	91.7	93.9	P/P	32 - 149
Naled	47.6	46.9	P/P	32 - 95.0
Norflurazon	94.6	98.5	P/P	57 - 127
Oxadiazon	88.7	94.0	P/P	63 - 118
Oxyfluorfen	106	116	P/P	69 - 137
Parathion Ethyl	90.0	91.9	P/P	70 - 113
Parathion Methyl	104	109	P/P	71 - 130

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P395927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pendimethalin	84.7	88.7	P/P	55 - 118
Phorate	83.5	73.7	P/P	46 - 125
Prodiamine	45.2	49.5	P/P	20 - 141
Prometon	88.4	91.2	P/P	54 - 122
Prometryn	94.4	97.5	P/P	66 - 124
Pronamide	95.3	96.9	P/P	79 - 122
Propiconazole	91.9	96.1	P/P	61 - 126
Pyriproxyfen	92.5	94.1	P/P	52 - 131
Simazine	98.7	97.9	P/P	75 - 128
Sulfentrazone	78.4	92.3	P/P	20 - 132
Tebuconazole	70.6	84.8	P/P	20 - 116
Terbufos	82.0	84.0	P/P	61 - 117
Terbuthylazine	89.5	93.1	P/P	74 - 116

Reference Method: EPA 8270E
Batch ID: P395945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	28.3	24.2	P/P	20 - 110
Alpha-BHC	88.5	86.9	P/P	58 - 130
Alpha-Chlordane	90.6	74.2	P/P	61 - 105
Beta-BHC	97.3	96.9	P/P	53 - 164
Beta-Cyfluthrin	108	99.2	P/P	40 - 140
Bifenthrin	97.2	82.1	P/P	44 - 122
Chlorothalonil	127	111	P/P	20 - 201
Cis-Nonachlor	80.4	76.5	P/P	60 - 110
Cypermethrin	112	89.1	P/P	43 - 131
Dacthal	92.2	87.9	P/P	76 - 108
DDD-p,p'	95.6	91.6	P/P	68 - 118
DDE-p,p'	95.7	82.0	P/P	56 - 107
DDT-p,p'	80.5	79.4	P/P	55 - 122
Delta-BHC	111	112	P/P	60 - 181
Deltamethrin	113	96.2	P/P	51 - 139
Dichlobenil	76.4	77.0	P/P	20 - 106
Dicofol	105	97.8	P/P	56 - 130
Dieldrin	68.4	71.5	P/P	58 - 112
Endosulfan I	87.3	84.9	P/P	68 - 115
Endosulfan II	108	95.3	P/P	69 - 133
Endosulfan Sulfate	113	86.2	P/P	65 - 126
Endrin	89.3	99.7	P/P	66 - 118
Endrin Aldehyde	126	123	P/P	60 - 132
Endrin Ketone	102	92.0	P/P	68 - 121
Esfenvalerate	104	98.3	P/P	42 - 116
Ethalfluralin	80.5	79.1	P/P	50 - 118
Fenpropathrin	105	98.4	P/P	55 - 132
Gamma-BHC	94.3	92.4	P/P	65 - 147
Gamma-Chlordane	74.0	68.9	P/P	56 - 103
Heptachlor	67.4	74.5	P/P	47 - 95.0
Heptachlor Epoxide	81.5	76.5	P/P	67 - 107
Hexachlorobenzene	69.5	70.1	P/P	45 - 99.0
Kepone	112	114	P/P	28 - 128
Lambda-Cyhalothrin	122	91.1	P/P	41 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P395945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoxychlor	91.8	102	P/P	61 - 138
MGK-264	25.7	18.1	P/F	20 - 109
Mirex	68.6	65.4	P/P	36 - 92.0
Permethrin	87.9	68.5	P/P	45 - 111
Phenothrin	29.7	23.5	P/P	22 - 88.0
Piperonyl Butoxide	107	106	P/P	67 - 120
Prallethrin	37.1	22.7	P/F	28 - 92.0
Tau-Fluvalinate	126	135	P/P	38 - 145
Tetramethrin	54.4	41.9	P/P	29 - 150
Trans-Nonachlor	77.9	72.0	P/P	54 - 105
Triclosan Methyl	98.4	93.5	P/P	76 - 115
Trifluralin	80.2	77.1	P/P	53 - 111

Reference Method: EPA 8270E
Batch ID: P396895

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxadiazon	80.6	98.2	P/P	63 - 118

Reference Method: EPA 8276
Batch ID: P395945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	89.8	89.5	P/P	56 - 117
Toxaphene	99.1	96.2	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P395858

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	121		P	40 - 150
AMPA	106		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	134		P	40 - 140
Sucralose	138		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P395859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	105		P	30 - 160
Aldicarb	88.7		P	30 - 160
Aldicarb Sulfone	135		P	30 - 160
Aldicarb Sulfoxide	158		P	30 - 160
Carbaryl	81.3		P	30 - 160
Carbofuran	83.9		P	30 - 160
Methiocarb	74.7		P	30 - 160
Methomyl	133		P	30 - 160
Oxamyl	125		P	30 - 160
Propoxur	88.4		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P395928

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	127		P	30 - 160
2,4,5-T	101		P	30 - 160
Acetaminophen	104		P	30 - 160
Acetamiprid	91.2		P	30 - 160
Afidopyropen	72.7		P	30 - 160
Bentazon	104		P	30 - 160
Benzovindiflupyr	90.5		P	30 - 160
Carbamazepine	96.6		P	30 - 160
Clothianidin	101		P	30 - 160
Dinotefuran	97.6		P	30 - 160
Diuron	75.5		P	30 - 160
Fenuron	99.3		P	30 - 160
Fluridone	103		P	30 - 160
Hydrocodone	101		P	30 - 160
Ibuprofen	90.1		P	30 - 160
Imazapyr	110		P	30 - 160
Imidacloprid	105		P	30 - 160
Linuron	87.9		P	30 - 160
Mandestrobin	96.8		P	30 - 160
MCPP	116		P	30 - 160
Naproxen	90.4		P	30 - 160
Primidone	103		P	30 - 160
Pyraclostrobin	79.3		P	30 - 160
Thiamethoxam	105		P	30 - 160
Tolfenpyrad	57.7		P	30 - 160
Triclopyr	102		P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P395927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2235662	Acetochlor	92.0	93.1	P/P	66 - 122
2235662	Alachlor	88.9	87.4	P/P	65 - 122
2235662	Ametryn	84.4	67.9	P/P	45 - 173
2235662	Atrazine Desethyl	105	105	P/P	25 - 150
2235662	Azinphos Methyl	136	126	P/P	44 - 174
2235662	Azoxystrobin	177	185	P/P	10 - 268
2235662	Bromacil	90.4	78.6	P/P	31 - 145
2235662	Butylate	36.8	47.4	P/P	15 - 97.0
2235662	Caffeine	81.8	95.9	P/P	70 - 130
2235662	Carbophenothion	94.2	89.4	P/P	42 - 129
2235662	Carfentrazone Ethyl	105	98.1	P/P	62 - 145
2235662	Chlorpyrifos Ethyl	87.6	81.2	P/P	60 - 124
2235662	Chlorpyrifos Methyl	97.7	94.2	P/P	66 - 119
2235662	Cyanazine	108	113	P/P	17 - 225
2235662	Demeton	80.6	82.2	P/P	36 - 142
2235662	Diazinon	99.8	101	P/P	70 - 128
2235662	Difenoconazole	153	156	P/P	33 - 222
2235662	Dimethenamid	90.4	90.6	P/P	54 - 125
2235662	Disulfoton	97.3	90.3	P/P	49 - 133
2235662	Dithiopyr	86.4	86.1	P/P	55 - 123
2235662	EPTC	34.8	48.1	P/P	19 - 91.0
2235662	Ethion	83.0	92.3	P/P	13 - 143
2235662	Ethoprop	94.5	98.9	P/P	49 - 144
2235662	Fenamiphos	79.5	85.6	P/P	32 - 136
2235662	Fenbuconazole	115	117	P/P	73 - 148
2235662	Fipronil	106	102	P/P	57 - 129
2235662	Fipronil Desulfinyl	104	97.7	P/P	49 - 127
2235662	Fipronil Sulfide	92.4	90.8	P/P	44 - 127
2235662	Fipronil Sulfone	84.1	85.2	P/P	35 - 126
2235662	Fluazifop-P-butyl	99.9	101	P/P	67 - 129
2235662	Fludioxonil	103	100	P/P	61 - 126
2235662	Flumioxazin	200	193	P/P	38 - 279
2235662	Flutolanil	90.1	92.7	P/P	55 - 136
2235662	Fluxapyroxad	91.1	92.2	P/P	33 - 140
2235662	Fonofos	86.8	88.0	P/P	58 - 125
2235662	Hexazinone	96.6	98.2	P/P	57 - 148
2235662	Imazalil	92.4	99.6	P/P	10 - 221
2235662	Iprodione	101	99.4	P/P	32 - 140
2235662	Malathion	104	103	P/P	52 - 138
2235662	Metalaxyl	102	98.4	P/P	46 - 134
2235662	Metolachlor	83.9	85.3	P/P	58 - 122
2235662	Metribuzin	119	114	P/P	16 - 272
2235662	Mevinphos	86.8	87.1	P/P	45 - 140
2235662	Molinate	54.6	63.6	P/P	41 - 103
2235662	Myclobutanil	97.2	97.1	P/P	60 - 134
2235662	Naled	40.9	48.7	P/P	20 - 113
2235662	Norflurazon	96.7	91.7	P/P	51 - 123
2235662	Oxyfluorfen	122	122	P/P	66 - 176
2235662	Parathion Ethyl	89.8	96.1	P/P	57 - 132
2235662	Parathion Methyl	115	109	P/P	59 - 156
2235662	Pendimethalin	100	95.5	P/P	59 - 129
2235662	Phorate	93.4	90.1	P/P	47 - 136

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P395927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2235662	Prodiamine	83.5	53.9	P/P	10 - 159
2235662	Prometon	100	95.3	P/P	59 - 127
2235662	Prometryn	98.1	96.8	P/P	59 - 129
2235662	Pronamide	93.7	83.8	P/P	65 - 145
2235662	Propiconazole	91.2	82.0	P/P	28 - 165
2235662	Pyriproxyfen	92.9	94.0	P/P	21 - 180
2235662	Sulfentrazone	104	104	P/P	32 - 136
2235662	Tebuconazole	75.2	75.8	P/P	10 - 117
2235662	Terbufos	88.6	91.5	P/P	61 - 131
2235662	Terbuthylazine	94.2	92.6	P/P	62 - 126

Reference Method: EPA 8270E
Batch ID: P395945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2235531	Alpha-BHC	74.6	80.6	P/P	53 - 147
2235531	Alpha-Chlordane	85.7	72.0	P/P	56 - 107
2235531	Beta-BHC	90.2	92.4	P/P	43 - 182
2235531	Beta-Cyfluthrin	89.7	102	P/P	42 - 157
2235531	Bifenthrin	76.9	83.9	P/P	52 - 124
2235531	Chlorothalonil	144	167	P/P	10 - 265
2235531	Cis-Nonachlor	83.5	74.1	P/P	55 - 112
2235531	Cypermethrin	87.1	80.1	P/P	46 - 144
2235531	Dacthal	88.1	87.2	P/P	72 - 110
2235531	DDD-p,p'	88.7	86.4	P/P	58 - 123
2235531	DDE-p,p'	81.0	81.3	P/P	52 - 106
2235531	DDT-p,p'	73.3	72.8	P/P	50 - 127
2235531	Delta-BHC	106	110	P/P	56 - 222
2235531	Deltamethrin	90.2	110	P/P	47 - 152
2235531	Dichlobenil	59.1	68.8	P/P	22 - 99.0
2235531	Dicofol	94.1	93.5	P/P	38 - 145
2235531	Endosulfan I	94.6	87.6	P/P	64 - 124
2235531	Endosulfan II	96.4	92.9	P/P	52 - 159
2235531	Endosulfan Sulfate	93.1	92.1	P/P	62 - 136
2235531	Endrin	85.8	101	P/P	57 - 126
2235531	Endrin Aldehyde	125	123	P/P	41 - 128
2235531	Endrin Ketone	83.8	78.0	P/P	67 - 129
2235531	Esfenvalerate	80.6	94.8	P/P	50 - 120
2235531	Ethalfluralin	73.9	73.4	P/P	41 - 125
2235531	Fenpropathrin	86.3	106	P/P	40 - 202
2235531	Gamma-BHC	90.3	89.3	P/P	58 - 180
2235531	Gamma-Chlordane	84.4	68.8	P/P	54 - 103
2235531	Heptachlor	65.0	63.0	P/P	46 - 94.0
2235531	Heptachlor Epoxide	73.7	76.8	P/P	62 - 111
2235531	Hexachlorobenzene	60.6	59.3	P/P	42 - 95.0
2235531	Lambda-Cyhalothrin	91.0	93.2	P/P	37 - 162
2235531	Methoxychlor	81.7	86.1	P/P	52 - 143
2235531	MGK-264	24.5	41.2	F/P	37 - 102
2235531	Mirex	63.3	55.4	P/P	43 - 91.0
2235531	Permethrin	68.7	69.8	P/P	48 - 113
2235531	Phenothrin	31.5	40.9	P/P	30 - 104
2235531	Piperonyl Butoxide	91.7	101	P/P	67 - 127

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P395945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2235531	Prallethrin	30.7	43.7	P/P	28 - 102
2235531	Tau-Fluvalinate	106	125	P/P	46 - 174
2235531	Tetramethrin	49.7	66.6	P/P	28 - 176
2235531	Trans-Nonachlor	73.3	70.3	P/P	51 - 103
2235531	Triclosan Methyl	102	93.9	P/P	67 - 116
2235531	Trifluralin	72.4	71.1	P/P	47 - 118
2235576	Aldrin	64.2	55.0	P/P	22 - 127
2235576	Dieldrin	69.0	62.1	P/P	52 - 123
2235576	Kepone	53.6	62.7	P/P	18 - 138

Reference Method: EPA 8270E
Batch ID: P396895

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239453	Oxadiazon	76.3	79.6	P/P	44 - 125

Reference Method: EPA 8276
Batch ID: P395945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2235576	Chlordane	127	98.9	P/P	47 - 128
2235576	Toxaphene	106	104	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P395858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2235408	Acesulfame K	192	197	F/F	40 - 150
2235408	AMPA	118	112	P/P	40 - 150
2235408	Endothall	113	123	P/P	40 - 150
2235408	Glufosinate	96.9	108	P/P	40 - 150
2235408	Glyphosate	129	148	P/F	40 - 140
2235408	Sucralose	106	106	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P395859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2234582	3-Hydroxycarbofuran	110	100	P/P	30 - 160
2234582	Aldicarb	89.1	74.8	P/P	30 - 160
2234582	Aldicarb Sulfone	132	123	P/P	30 - 160
2234582	Aldicarb Sulfoxide	88.4	78.9	P/P	30 - 160
2234582	Carbaryl	60.4	56.5	P/P	30 - 160
2234582	Carbofuran	63.6	58.6	P/P	30 - 160
2234582	Methiocarb	68.0	61.3	P/P	30 - 160
2234582	Methomyl	109	103	P/P	30 - 160
2234582	Oxamyl	116	107	P/P	30 - 160
2234582	Propoxur	67.8	60.8	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P395928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2235408	2,4-D	320	305	F/F	30 - 160
2235408	2,4,5-T	117	117	P/P	30 - 160
2235408	Acetaminophen	185	139	F/P	30 - 160
2235408	Acetamiprid	116	113	P/P	30 - 160
2235408	Afidopyropen	111	105	P/P	30 - 160
2235408	Bentazon	300	300	F/F	30 - 160
2235408	Benzovindiflupyr	101	97.6	P/P	30 - 160
2235408	Carbamazepine	115	112	P/P	30 - 160
2235408	Clothianidin	119	121	P/P	30 - 160
2235408	Dinotefuran	122	115	P/P	30 - 160
2235408	Diuron	98.1	95.9	P/P	30 - 160
2235408	Fenuron	105	98.4	P/P	30 - 160
2235408	Fluridone	115	114	P/P	30 - 160
2235408	Hydrocodone	131	123	P/P	30 - 160
2235408	Ibuprofen	97.7	98.6	P/P	30 - 160
2235408	Imidacloprid	148	144	P/P	30 - 160
2235408	Linuron	97.3	87.1	P/P	30 - 160
2235408	Mandestrobin	100	97.2	P/P	30 - 160
2235408	MCPP	135	134	P/P	30 - 160
2235408	Naproxen	102	109	P/P	30 - 160
2235408	Primidone	119	117	P/P	30 - 160
2235408	Pyraclostrobin	93.5	82.5	P/P	30 - 160
2235408	Thiamethoxam	138	136	P/P	30 - 160
2235408	Tolfenpyrad	67.0	58.2	P/P	30 - 160
2235408	Triclopyr	124	121	P/P	30 - 160

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P395927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235662	Acetochlor	1.19	Spike	P	0 - 30
2235662	Alachlor	1.71	Spike	P	0 - 30
2235662	Ametryn	21.6	Spike	P	0 - 30
2235662	Atrazine	5.75	Spike	P	0 - 30
2235662	Atrazine Desethyl	0.129	Spike	P	0 - 30
2235662	Azinphos Methyl	8.05	Spike	P	0 - 30
2235662	Azoxystrobin	3.52	Spike	P	0 - 30
2235662	Bromacil	12.0	Spike	P	0 - 30
2235662	Butylate	25.2	Spike	P	0 - 30
2235662	Caffeine	9.86	Spike	P	0 - 30
2235662	Carbophenothion	5.25	Spike	P	0 - 30
2235662	Carfentrazone Ethyl	6.51	Spike	P	0 - 30
2235662	Chlorpyrifos Ethyl	7.64	Spike	P	0 - 30
2235662	Chlorpyrifos Methyl	3.70	Spike	P	0 - 30
2235662	Cyanazine	4.50	Spike	P	0 - 30
2235662	Demeton	1.94	Spike	P	0 - 30
2235662	Diazinon	1.35	Spike	P	0 - 30
2235662	Difenoconazole	2.08	Spike	P	0 - 30
2235662	Dimethenamid	0.141	Spike	P	0 - 30
2235662	Disulfoton	7.49	Spike	P	0 - 30
2235662	Dithiopyr	0.229	Spike	P	0 - 30
2235662	EPTC	32.2	Spike	F	0 - 30
2235662	Ethion	10.7	Spike	P	0 - 30
2235662	Ethoprop	4.57	Spike	P	0 - 30
2235662	Fenamiphos	7.42	Spike	P	0 - 30
2235662	Fenbuconazole	1.70	Spike	P	0 - 30
2235662	Fipronil	3.98	Spike	P	0 - 30
2235662	Fipronil Desulfinyl	5.76	Spike	P	0 - 30
2235662	Fipronil Sulfide	1.79	Spike	P	0 - 30
2235662	Fipronil Sulfone	1.16	Spike	P	0 - 30
2235662	Fluazifop-P-butyl	1.07	Spike	P	0 - 30
2235662	Fludioxonil	3.14	Spike	P	0 - 30
2235662	Flumioxazin	3.55	Spike	P	0 - 30
2235662	Flutolanil	2.43	Spike	P	0 - 30
2235662	Fluxapyroxad	1.10	Spike	P	0 - 30
2235662	Fonofos	1.41	Spike	P	0 - 30
2235662	Hexazinone	1.58	Spike	P	0 - 30
2235662	Imazalil	7.50	Spike	P	0 - 30
2235662	Iprodione	1.92	Spike	P	0 - 30
2235662	Malathion	0.579	Spike	P	0 - 30
2235662	Metalaxyl	3.93	Spike	P	0 - 30
2235662	Metolachlor	1.08	Spike	P	0 - 30
2235662	Metribuzin	4.21	Spike	P	0 - 30
2235662	Mevinphos	0.403	Spike	P	0 - 30
2235662	Molinate	15.2	Spike	P	0 - 30
2235662	Myclobutanil	0.120	Spike	P	0 - 30
2235662	Naled	17.4	Spike	P	0 - 30
2235662	Norflurazon	5.30	Spike	P	0 - 30
2235662	Oxadiazon	8.47	Spike	P	0 - 30
2235662	Oxyfluorfen	0.638	Spike	P	0 - 30
2235662	Parathion Ethyl	6.84	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P395927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235662	Parathion Methyl	5.81	Spike	P	0 - 30
2235662	Pendimethalin	4.74	Spike	P	0 - 30
2235662	Phorate	3.60	Spike	P	0 - 30
2235662	Prodiamine	43.2	Spike	F	0 - 30
2235662	Prometon	5.13	Spike	P	0 - 30
2235662	Prometryn	1.40	Spike	P	0 - 30
2235662	Pronamide	8.65	Spike	P	0 - 30
2235662	Propiconazole	8.17	Spike	P	0 - 30
2235662	Pyriproxyfen	1.13	Spike	P	0 - 30
2235662	Simazine	9.22	Spike	P	0 - 30
2235662	Sulfentrazone	0.425	Spike	P	0 - 30
2235662	Tebuconazole	0.756	Spike	P	0 - 30
2235662	Terbufos	3.24	Spike	P	0 - 30
2235662	Terbuthylazine	1.75	Spike	P	0 - 30
LFB	Acetochlor	0.197	LCS	P	0 - 30
LFB	Alachlor	2.66	LCS	P	0 - 30
LFB	Ametryn	21.9	LCS	P	0 - 30
LFB	Atrazine	6.45	LCS	P	0 - 30
LFB	Atrazine Desethyl	9.25	LCS	P	0 - 30
LFB	Azinphos Methyl	3.36	LCS	P	0 - 30
LFB	Azoxystrobin	12.6	LCS	P	0 - 30
LFB	Bromacil	10.0	LCS	P	0 - 30
LFB	Butylate	24.2	LCS	P	0 - 30
LFB	Caffeine	6.84	LCS	P	0 - 30
LFB	Carbophenothion	8.54	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	4.50	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	15.9	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.59	LCS	P	0 - 30
LFB	Cyanazine	3.84	LCS	P	0 - 30
LFB	Demeton	3.18	LCS	P	0 - 30
LFB	Diazinon	0.257	LCS	P	0 - 30
LFB	Difenoconazole	2.42	LCS	P	0 - 30
LFB	Dimethenamid	5.69	LCS	P	0 - 30
LFB	Disulfoton	10.7	LCS	P	0 - 30
LFB	Dithiopyr	5.30	LCS	P	0 - 30
LFB	EPTC	25.3	LCS	P	0 - 30
LFB	Ethion	15.8	LCS	P	0 - 30
LFB	Ethoprop	4.46	LCS	P	0 - 30
LFB	Fenamiphos	8.89	LCS	P	0 - 30
LFB	Fenbuconazole	5.92	LCS	P	0 - 30
LFB	Fipronil	2.11	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	2.56	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.66	LCS	P	0 - 30
LFB	Fipronil Sulfone	13.9	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	1.67	LCS	P	0 - 30
LFB	Fludioxonil	2.39	LCS	P	0 - 30
LFB	Flumioxazin	6.33	LCS	P	0 - 30
LFB	Flutolanil	2.49	LCS	P	0 - 30
LFB	Fluxapyroxad	4.26	LCS	P	0 - 30
LFB	Fonofos	0.628	LCS	P	0 - 30
LFB	Hexazinone	7.88	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P395927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Imazalil	24.8	LCS	P	0 - 30
LFB	Iprodione	4.17	LCS	P	0 - 30
LFB	Malathion	2.45	LCS	P	0 - 30
LFB	Metalaxyl	0.824	LCS	P	0 - 30
LFB	Metolachlor	4.77	LCS	P	0 - 30
LFB	Metribuzin	3.08	LCS	P	0 - 30
LFB	Mevinphos	4.39	LCS	P	0 - 30
LFB	Molinate	17.6	LCS	P	0 - 30
LFB	Myclobutanil	2.42	LCS	P	0 - 30
LFB	Naled	1.62	LCS	P	0 - 30
LFB	Norflurazon	4.12	LCS	P	0 - 30
LFB	Oxadiazon	5.87	LCS	P	0 - 30
LFB	Oxyfluorfen	8.45	LCS	P	0 - 30
LFB	Parathion Ethyl	2.16	LCS	P	0 - 30
LFB	Parathion Methyl	5.05	LCS	P	0 - 30
LFB	Pendimethalin	4.60	LCS	P	0 - 30
LFB	Phorate	12.5	LCS	P	0 - 30
LFB	Prodiamine	9.01	LCS	P	0 - 30
LFB	Prometon	3.06	LCS	P	0 - 30
LFB	Prometryn	3.25	LCS	P	0 - 30
LFB	Pronamide	1.61	LCS	P	0 - 30
LFB	Propiconazole	4.52	LCS	P	0 - 30
LFB	Pyriproxyfen	1.70	LCS	P	0 - 30
LFB	Simazine	0.755	LCS	P	0 - 30
LFB	Sulfentrazone	16.4	LCS	P	0 - 30
LFB	Tebuconazole	18.3	LCS	P	0 - 30
LFB	Terbufos	2.48	LCS	P	0 - 30
LFB	Terbuthylazine	3.92	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P395945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235531	Alpha-BHC	7.83	Spike	P	0 - 30
2235531	Alpha-Chlordane	17.4	Spike	P	0 - 30
2235531	Beta-BHC	2.44	Spike	P	0 - 30
2235531	Beta-Cyfluthrin	12.8	Spike	P	0 - 30
2235531	Bifenthrin	8.67	Spike	P	0 - 30
2235531	Chlorothalonil	14.2	Spike	P	0 - 30
2235531	Cis-Nonachlor	12.0	Spike	P	0 - 30
2235531	Cypermethrin	8.32	Spike	P	0 - 30
2235531	Dacthal	0.970	Spike	P	0 - 30
2235531	DDD-p,p'	2.57	Spike	P	0 - 30
2235531	DDE-p,p'	0.331	Spike	P	0 - 30
2235531	DDT-p,p'	0.729	Spike	P	0 - 30
2235531	Delta-BHC	3.79	Spike	P	0 - 30
2235531	Deltamethrin	19.9	Spike	P	0 - 30
2235531	Dichlobenil	15.2	Spike	P	0 - 30
2235531	Dicofol	0.652	Spike	P	0 - 30
2235531	Endosulfan I	7.72	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P395945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235531	Endosulfan II	3.74	Spike	P	0 - 30
2235531	Endosulfan Sulfate	1.01	Spike	P	0 - 30
2235531	Endrin	15.9	Spike	P	0 - 30
2235531	Endrin Aldehyde	1.48	Spike	P	0 - 30
2235531	Endrin Ketone	7.25	Spike	P	0 - 30
2235531	Esfenvalerate	16.3	Spike	P	0 - 30
2235531	Ethalfluralin	0.694	Spike	P	0 - 30
2235531	Fenpropathrin	20.2	Spike	P	0 - 30
2235531	Gamma-BHC	1.18	Spike	P	0 - 30
2235531	Gamma-Chlordane	20.3	Spike	P	0 - 30
2235531	Heptachlor	3.07	Spike	P	0 - 30
2235531	Heptachlor Epoxide	4.06	Spike	P	0 - 30
2235531	Hexachlorobenzene	2.13	Spike	P	0 - 30
2235531	Lambda-Cyhalothrin	2.32	Spike	P	0 - 30
2235531	Methoxychlor	5.23	Spike	P	0 - 30
2235531	MGK-264	51.0	Spike	F	0 - 30
2235531	Mirex	13.2	Spike	P	0 - 30
2235531	Permethrin	1.57	Spike	P	0 - 30
2235531	Phenothrin	26.1	Spike	P	0 - 30
2235531	Piperonyl Butoxide	9.49	Spike	P	0 - 30
2235531	Prallethrin	34.8	Spike	F	0 - 30
2235531	Tau-Fluvalinate	16.8	Spike	P	0 - 30
2235531	Tetramethrin	29.1	Spike	P	0 - 30
2235531	Trans-Nonachlor	4.14	Spike	P	0 - 30
2235531	Triclosan Methyl	8.19	Spike	P	0 - 30
2235531	Trifluralin	1.77	Spike	P	0 - 30
2235576	Aldrin	15.4	Spike	P	0 - 30
2235576	Dieldrin	10.5	Spike	P	0 - 30
2235576	Kepone	15.6	Spike	P	0 - 30
LFB	Aldrin	15.8	LCS	P	0 - 30
LFB	Alpha-BHC	1.81	LCS	P	0 - 30
LFB	Alpha-Chlordane	19.9	LCS	P	0 - 30
LFB	Beta-BHC	0.424	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	8.12	LCS	P	0 - 30
LFB	Bifenthrin	16.8	LCS	P	0 - 30
LFB	Chlorothalonil	13.4	LCS	P	0 - 30
LFB	Cis-Nonachlor	4.89	LCS	P	0 - 30
LFB	Cypermethrin	22.9	LCS	P	0 - 30
LFB	Dacthal	4.87	LCS	P	0 - 30
LFB	DDD-p,p'	4.33	LCS	P	0 - 30
LFB	DDE-p,p'	15.4	LCS	P	0 - 30
LFB	DDT-p,p'	1.41	LCS	P	0 - 30
LFB	Delta-BHC	0.587	LCS	P	0 - 30
LFB	Deltamethrin	16.3	LCS	P	0 - 30
LFB	Dichlobenil	0.814	LCS	P	0 - 30
LFB	Dicofol	7.45	LCS	P	0 - 30
LFB	Dieldrin	4.37	LCS	P	0 - 30
LFB	Endosulfan I	2.83	LCS	P	0 - 30
LFB	Endosulfan II	12.5	LCS	P	0 - 30
LFB	Endosulfan Sulfate	27.2	LCS	P	0 - 30
LFB	Endrin	11.0	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P395945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Aldehyde	2.08	LCS	P	0 - 30
LFB	Endrin Ketone	10.6	LCS	P	0 - 30
LFB	Esfenvalerate	5.72	LCS	P	0 - 30
LFB	Ethalfluralin	1.72	LCS	P	0 - 30
LFB	Fenpropathrin	6.51	LCS	P	0 - 30
LFB	Gamma-BHC	1.99	LCS	P	0 - 30
LFB	Gamma-Chlordane	7.22	LCS	P	0 - 30
LFB	Heptachlor	10.0	LCS	P	0 - 30
LFB	Heptachlor Epoxide	6.43	LCS	P	0 - 30
LFB	Hexachlorobenzene	0.858	LCS	P	0 - 30
LFB	Kepone	2.38	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	28.9	LCS	P	0 - 30
LFB	Methoxychlor	10.9	LCS	P	0 - 30
LFB	MGK-264	34.4	LCS	F	0 - 30
LFB	Mirex	4.72	LCS	P	0 - 30
LFB	Permethrin	24.8	LCS	P	0 - 30
LFB	Phenothrin	23.6	LCS	P	0 - 30
LFB	Piperonyl Butoxide	1.14	LCS	P	0 - 30
LFB	Prallethrin	48.2	LCS	F	0 - 30
LFB	Tau-Fluvalinate	6.63	LCS	P	0 - 30
LFB	Tetramethrin	25.8	LCS	P	0 - 30
LFB	Trans-Nonachlor	7.84	LCS	P	0 - 30
LFB	Triclosan Methyl	5.10	LCS	P	0 - 30
LFB	Trifluralin	3.92	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P396895

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239453	Oxadiazon	3.12	Spike	P	0 - 30
LFB	Oxadiazon	19.7	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P395945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235576	Chlordane	24.8	Spike	P	0 - 30
2235576	Toxaphene	1.06	Spike	P	0 - 30
LFB	Chlordane	0.300	LCS	P	0 - 30
LFB	Toxaphene	2.94	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P395858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235408	Acesulfame K	2.67	Spike	P	0 - 30
2235408	AMPA	4.83	Spike	P	0 - 30
2235408	Endothall	8.60	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P395858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235408	Glufosinate	11.3	Spike	P	0 - 30
2235408	Glyphosate	13.2	Spike	P	0 - 30
2235408	Sucralose	0.533	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P395859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2234582	3-Hydroxycarbofuran	8.98	Spike	P	0 - 30
2234582	Aldicarb	17.5	Spike	P	0 - 30
2234582	Aldicarb Sulfone	6.96	Spike	P	0 - 30
2234582	Aldicarb Sulfoxide	11.4	Spike	P	0 - 30
2234582	Carbaryl	6.73	Spike	P	0 - 30
2234582	Carbofuran	8.04	Spike	P	0 - 30
2234582	Methiocarb	10.3	Spike	P	0 - 30
2234582	Methomyl	5.24	Spike	P	0 - 30
2234582	Oxamyl	8.59	Spike	P	0 - 30
2234582	Propoxur	10.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P395928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2235408	2,4-D	4.70	Spike	P	0 - 30
2235408	2,4,5-T	0.565	Spike	P	0 - 30
2235408	Acetaminophen	28.1	Spike	P	0 - 30
2235408	Acetamiprid	2.29	Spike	P	0 - 30
2235408	Afidopyropen	5.53	Spike	P	0 - 30
2235408	Bentazon	0.0691	Spike	P	0 - 30
2235408	Benzovindiflupyr	3.29	Spike	P	0 - 30
2235408	Carbamazepine	2.16	Spike	P	0 - 30
2235408	Clothianidin	1.44	Spike	P	0 - 30
2235408	Dinotefuran	5.68	Spike	P	0 - 30
2235408	Diuron	2.26	Spike	P	0 - 30
2235408	Fenuron	6.78	Spike	P	0 - 30
2235408	Fluridone	0.833	Spike	P	0 - 30
2235408	Hydrocodone	6.47	Spike	P	0 - 30
2235408	Ibuprofen	0.905	Spike	P	0 - 30
2235408	Imazapyr	2.53	Spike	P	0 - 30
2235408	Imidacloprid	2.74	Spike	P	0 - 30
2235408	Linuron	11.1	Spike	P	0 - 30
2235408	Mandestrobin	3.07	Spike	P	0 - 30
2235408	MCPP	0.726	Spike	P	0 - 30
2235408	Naproxen	6.52	Spike	P	0 - 30
2235408	Primidone	1.75	Spike	P	0 - 30
2235408	Pyraclostrobin	12.6	Spike	P	0 - 30
2235408	Thiamethoxam	1.69	Spike	P	0 - 30
2235408	Tolfenpyrad	14.2	Spike	P	0 - 30
2235408	Triclopyr	2.21	Spike	P	0 - 30

Quality Assurance Report
Precision

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2235834
Field Sample ID: 20030667

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	54.2	P	30 - 160

Lab Sample ID: 2235835
Field Sample ID: 20030667

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	154	P	30 - 160
EPA 8321B	Acetaminophen-d4	156	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Diuron-d6	79.3	P	30 - 160
EPA 8321B	Endothall-d6	108	P	40 - 160
EPA 8321B	Endothall-d6	108	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	93.1	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	93.1	P	40 - 160
EPA 8321B	Ibuprofen-d3	121	P	30 - 160
EPA 8321B	Primidone-d5	149	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Lab Sample ID: 2235836
Field Sample ID: FB_03162021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	96.5	P	30 - 160

Lab Sample ID: 2235837
Field Sample ID: FB_03162021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Diuron-d6	102	P	30 - 160
EPA 8321B	Endothall-d6	111	P	40 - 160
EPA 8321B	Endothall-d6	111	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	129	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	129	P	40 - 160
EPA 8321B	Ibuprofen-d3	121	P	30 - 160
EPA 8321B	Primidone-d5	146	P	30 - 160
EPA 8321B	Sucralose-d6	92.3	P	30 - 160
EPA 8321B	Sucralose-d6	92.3	P	30 - 160

Lab Sample ID: 2235838
Field Sample ID: 20030667

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	86.5	P	40 - 123
EPA 8270E	Decachlorobiphenyl	101	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	49.6	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	56.8	P	33 - 102
EPA 8276	Decachlorobiphenyl	70.8	P	29 - 92.0
EPA 8276	PCNB	82.5	P	43 - 134

Quality Assurance Report
Surrogates

Lab Sample ID: 2235839
Field Sample ID: 20030667

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	90.3	P	20 - 200
EPA 8270E	Simazine-d10	111	P	73 - 135
EPA 8270E	Terbufos-d10	115	P	58 - 130

Lab Sample ID: 2235840
Field Sample ID: FB_03162021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	77.8	P	40 - 123
EPA 8270E	Decachlorobiphenyl	54.0	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	66.8	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	69.2	P	33 - 102
EPA 8276	Decachlorobiphenyl	65.4	P	29 - 92.0
EPA 8276	PCNB	83.8	P	43 - 134

Lab Sample ID: 2235841
Field Sample ID: FB_03162021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	95.5	P	20 - 200
EPA 8270E	Caffeine-d9	77.1	P	20 - 200
EPA 8270E	Simazine-d10	119	P	73 - 135
EPA 8270E	Simazine-d10	146	F	73 - 135
EPA 8270E	Terbufos-d10	113	P	58 - 130
EPA 8270E	Terbufos-d10	120	P	58 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A104476
Included Lab Sample IDs: 2235835, 2235837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	91.4	83.5	P/P	40 - 160
AMPA	94.6	88.4	P/P	40 - 160
Endothall	66.0	77.8	P/P	40 - 160
Glufosinate	84.5	94.7	P/P	40 - 160
Glyphosate	136	127	P/P	40 - 160

Reference Method: EPA 8270E
Run ID: A104519
Included Lab Sample IDs: 2235838, 2235840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	106		P	80 - 120
Dieldrin	100		P	80 - 120
Kepone	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A104535
Included Lab Sample IDs: 2235838, 2235840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	97.1		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	94.0		P	80 - 120
Beta-Cyfluthrin	89.2		P	80 - 120
Bifenthrin	99.6		P	80 - 120
Chlorothalonil	92.4		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	98.7		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	99.7		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	98.4		P	80 - 120
Deltamethrin	92.3		P	80 - 120
Dichlobenil	93.2		P	80 - 120
Dicofol	97.6		P	80 - 120
Endosulfan I	99.2		P	80 - 120
Endosulfan II	85.8		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	118		P	80 - 120
Endrin Ketone	95.9		P	80 - 120
Esfenvalerate	93.5		P	80 - 120
Ethalfluralin	96.7		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	98.4		P	80 - 120
Gamma-Chlordane	98.0		P	80 - 120
Heptachlor	98.0		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	97.0		P	80 - 120
Lambda-Cyhalothrin	97.8		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A104535
Included Lab Sample IDs: 2235838, 2235840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	99.4		P	80 - 120
MGK-264	95.4		P	80 - 120
Mirex	99.1		P	80 - 120
Permethrin	86.8		P	80 - 120
Phenothrin	95.8		P	80 - 120
Piperonyl Butoxide	98.3		P	80 - 120
Prallethrin	89.1		P	80 - 120
Tau-Fluvalinate	99.0		P	80 - 120
Tetramethrin	86.2		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	97.9		P	80 - 120

Reference Method: EPA 8321B
Run ID: A104557
Included Lab Sample IDs: 2235835, 2235837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	132	134	P/P	60 - 160
Sucralose	154	103	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A104599
Included Lab Sample IDs: 2235835, 2235837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	108	121	P/P	50 - 150
2,4,5-T	111	126	P/P	50 - 150
3-Hydroxycarbofuran	127	74.9	P/P	60 - 150
Acetaminophen	117	135	P/P	60 - 160
Acetamiprid	126	139	P/P	50 - 150
Afidopyropen	137	131	P/P	50 - 150
Aldicarb	109	126	P/P	60 - 150
Aldicarb Sulfone	129	120	P/P	50 - 150
Aldicarb Sulfoxide	130	117	P/P	50 - 150
Bentazon	123	135	P/P	50 - 160
Benzovindiflupyr	129	150	P/P	50 - 160
Carbamazepine	128	139	P/P	60 - 150
Carbaryl	120	120	P/P	60 - 150
Carbofuran	123	114	P/P	50 - 150
Clothianidin	119	146	P/P	60 - 150
Dinotefuran	113	133	P/P	50 - 150
Diuron	128	141	P/P	60 - 160
Fenuron	93.7	101	P/P	60 - 150
Fluridone	114	134	P/P	60 - 160
Hydrocodone	121	144	P/P	60 - 150
Ibuprofen	101	111	P/P	50 - 160
Imazapyr	118	148	P/P	50 - 160
Imidacloprid	122	132	P/P	60 - 150
Linuron	127	147	P/P	60 - 150
Mandestrobin	115	132	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A104599
Included Lab Sample IDs: 2235835, 2235837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MCPP	124	130	P/P	50 - 150
Methiocarb	123	119	P/P	50 - 150
Methomyl	128	122	P/P	50 - 150
Naproxen	119	150	P/P	50 - 160
Oxamyl	128	114	P/P	50 - 150
Primidone	122	134	P/P	60 - 150
Propoxur	126	119	P/P	50 - 150
Pyraclostrobin	115	133	P/P	60 - 150
Thiamethoxam	122	137	P/P	50 - 150
Tolfenpyrad	121	138	P/P	60 - 150
Triclopyr	130	129	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A104605
Included Lab Sample IDs: 2235835

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	112	121	P/P	50 - 160

Reference Method: EPA 8270E
Run ID: A104618
Included Lab Sample IDs: 2235839, 2235841

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	99.6		P	80 - 120
Ametryn	92.8		P	80 - 120
Atrazine	91.7		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	93.8		P	80 - 120
Bromacil	96.9		P	80 - 120
Butylate	91.5		P	80 - 120
Caffeine	101		P	80 - 120
Carbophenothion	97.1		P	80 - 120
Carfentrazone Ethyl	95.2		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	99.1		P	80 - 120
Cyanazine	94.2		P	80 - 120
Demeton	99.8		P	80 - 120
Diazinon	97.9		P	80 - 120
Difenoconazole	95.4		P	80 - 120
Dimethenamid	96.9		P	80 - 120
Disulfoton	94.8		P	80 - 120
Dithiopyr	98.5		P	80 - 120
EPTC	96.2		P	80 - 120
Ethion	95.6		P	80 - 120
Ethoprop	103		P	80 - 120
Fenamiphos	96.9		P	80 - 120
Fenbuconazole	97.9		P	80 - 120
Fipronil	95.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A104618
Included Lab Sample IDs: 2235839, 2235841

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Desulfinyl	96.1		P	80 - 120
Fipronil Sulfide	95.7		P	80 - 120
Fipronil Sulfone	94.8		P	80 - 120
Fluazifop-P-butyl	95.0		P	80 - 120
Fludioxonil	98.0		P	80 - 120
Flumioxazin	97.2		P	80 - 120
Flutolanil	88.8		P	80 - 120
Fluxapyroxad	91.1		P	80 - 120
Fonofos	105		P	80 - 120
Hexazinone	107		P	80 - 120
Imazalil	98.3		P	80 - 120
Iprodione	96.3		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	98.3		P	80 - 120
Metolachlor	97.2		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	98.6		P	80 - 120
Myclobutanil	93.1		P	80 - 120
Naled	103		P	80 - 120
Norflurazon	95.7		P	80 - 120
Oxadiazon	98.6		P	80 - 120
Oxyfluorfen	97.2		P	80 - 120
Parathion Ethyl	91.7		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	99.6		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	96.0		P	80 - 120
Prometryn	96.3		P	80 - 120
Pronamide	97.3		P	80 - 120
Propiconazole	93.4		P	80 - 120
Pyriproxyfen	98.1		P	80 - 120
Simazine	95.3		P	80 - 120
Sulfentrazone	98.2		P	80 - 120
Tebuconazole	96.5		P	80 - 120
Terbufos	97.3		P	80 - 120
Terbuthylazine	95.4		P	80 - 120

Reference Method: EPA 8276
Run ID: A104620
Included Lab Sample IDs: 2235838, 2235840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.7		P	80 - 120
Toxaphene	83.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A104909
Included Lab Sample IDs: 2235841

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxadiazon	99.3		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Acetochlor	93.6	93.4	92.0	93.1	0.197		1.19
	Alachlor	94.7	92.2	88.9	87.4	2.66		1.71
	Aldrin	28.3	24.2	64.2	55.0	15.8		15.4
	Alpha-BHC	88.5	86.9	80.6	74.6	1.81		7.83
	Alpha-Chlordane	90.6	74.2	72.0	85.7	19.9		17.4
	Ametryn	78.4	63.0	84.4	67.9	21.9		21.6
	Atrazine	98.9	92.7			6.45		5.75
	Atrazine Desethyl	108	98.8	105	105	9.25		0.129
	Azinphos Methyl	131	127	126	136	3.36		8.05
	Azoxystrobin	181	159	185	177	12.6		3.52
	Beta-BHC	97.3	96.9	90.2	92.4	0.424		2.44
	Beta-Cyfluthrin	108	99.2	89.7	102	8.12		12.8
	Bifenthrin	97.2	82.1	76.9	83.9	16.8		8.67
	Bromacil	89.5	80.9	78.6	90.4	10.0		12.0
	Butylate	60.8	47.7	47.4	36.8	24.2		25.2
	Caffeine	70.6	75.6	81.8	95.9	6.84		9.86
	Carbophenothion	94.6	86.8	94.2	89.4	8.54		5.25
	Carfentrazone Ethyl	107	102	105	98.1	4.50		6.51
	Chlorothalonil	127	111	167	144	13.4		14.2
	Chlorpyrifos Ethyl	90.8	77.4	87.6	81.2	15.9		7.64
	Chlorpyrifos Methyl	94.4	91.1	97.7	94.2	3.59		3.70
	Cis-Nonachlor	80.4	76.5	74.1	83.5	4.89		12.0
	Cyanazine	122	126	108	113	3.84		4.50
	Cypermethrin	112	89.1	80.1	87.1	22.9		8.32
	Dacthal	92.2	87.9	87.2	88.1	4.87		0.970
	DDD-p,p'	95.6	91.6	86.4	88.7	4.33		2.57
	DDE-p,p'	95.7	82.0	81.3	81.0	15.4		0.331
	DDT-p,p'	80.5	79.4	72.8	73.3	1.41		0.729
	Delta-BHC	111	112	106	110	0.587		3.79
	Deltamethrin	113	96.2	110	90.2	16.3		19.9
	Demeton	78.0	75.5	80.6	82.2	3.18		1.94
	Diazinon	99.8	99.5	99.8	101	0.257		1.35
	Dichlobenil	76.4	77.0	68.8	59.1	0.814		15.2
	Dicofol	105	97.8	93.5	94.1	7.45		0.652
	Dieldrin	68.4	71.5	69.0	62.1	4.37		10.5
	Difenoconazole	145	149	153	156	2.42		2.08
	Dimethenamid	92.4	87.3	90.4	90.6	5.69		0.141
	Disulfoton	89.2	80.1	97.3	90.3	10.7		7.49
	Dithiopyr	89.0	84.4	86.4	86.1	5.30		0.229
	Endosulfan I	87.3	84.9	87.6	94.6	2.83		7.72
	Endosulfan II	108	95.3	92.9	96.4	12.5		3.74
	Endosulfan Sulfate	113	86.2	92.1	93.1	27.2		1.01
	Endrin	89.3	99.7	101	85.8	11.0		15.9
	Endrin Aldehyde	126	123	123	125	2.08		1.48
	Endrin Ketone	102	92.0	78.0	83.8	10.6		7.25
	EPTC	48.6	62.7	34.8	48.1	25.3		32.2
	Esfenvalerate	104	98.3	94.8	80.6	5.72		16.3
	Ethalfluralin	80.5	79.1	73.4	73.9	1.72		0.694
	Ethion	92.6	79.0	83.0	92.3	15.8		10.7
	Ethoprop	87.0	91.0	94.5	98.9	4.46		4.57
	Fenamiphos	97.7	89.4	79.5	85.6	8.89		7.42
	Fenbuconazole	107	114	115	117	5.92		1.70
	Fenpropathrin	105	98.4	86.3	106	6.51		20.2
	Fipronil	95.8	97.8	106	102	2.11		3.98

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Fipronil Desulfinyl	98.3	95.8	104	97.7	2.56		5.76
	Fipronil Sulfide	86.5	82.5	92.4	90.8	4.66		1.79
	Fipronil Sulfone	90.7	79.0	85.2	84.1	13.9		1.16
	Fluazifop-P-butyl	98.1	96.4	101	99.9	1.67		1.07
	Fludioxonil	104	101	100	103	2.39		3.14
	Flumioxazin	175	165	193	200	6.33		3.55
	Flutolanil	94.3	92.0	92.7	90.1	2.49		2.43
	Fluxapyroxad	89.9	86.2	92.2	91.1	4.26		1.10
	Fonofos	84.5	85.0	88.0	86.8	0.628		1.41
	Gamma-BHC	94.3	92.4	90.3	89.3	1.99		1.18
	Gamma-Chlordane	74.0	68.9	68.8	84.4	7.22		20.3
	Heptachlor	67.4	74.5	63.0	65.0	10.0		3.07
	Heptachlor Epoxide	81.5	76.5	76.8	73.7	6.43		4.06
	Hexachlorobenzene	69.5	70.1	59.3	60.6	0.858		2.13
	Hexazinone	99.7	92.1	98.2	96.6	7.88		1.58
	Imazalil	112	87.5	99.6	92.4	24.8		7.50
	Iprodione	99.9	95.9	99.4	101	4.17		1.92
	Kepone	112	114	53.6	62.7	2.38		15.6
	Lambda-Cyhalothrin	122	91.1	93.2	91.0	28.9		2.32
	Malathion	100	98.0	103	104	2.45		0.579
	Metalaxyl	97.2	96.4	98.4	102	0.824		3.93
	Methoxychlor	91.8	102	86.1	81.7	10.9		5.23
	Metolachlor	90.2	86.0	85.3	83.9	4.77		1.08
	Metribuzin	105	108	114	119	3.08		4.21
	Mevinphos	71.7	74.9	87.1	86.8	4.39		0.403
	MGK-264	25.7	18.1	24.5	41.2	34.4		51.0
	Mirex	68.6	65.4	63.3	55.4	4.72		13.2
	Molinate	67.4	56.5	63.6	54.6	17.6		15.2
	Myclobutanil	91.7	93.9	97.1	97.2	2.42		0.120
	Naled	47.6	46.9	48.7	40.9	1.62		17.4
	Norflurazon	94.6	98.5	91.7	96.7	4.12		5.30
	Oxadiazon	88.7	94.0			5.87		8.47
	Oxadiazon	80.6	98.2	79.6	76.3	19.7		3.12
	Oxyfluorfen	106	116	122	122	8.45		0.638
	Parathion Ethyl	90.0	91.9	96.1	89.8	2.16		6.84
	Parathion Methyl	104	109	109	115	5.05		5.81
	Pendimethalin	84.7	88.7	95.5	100	4.60		4.74
	Permethrin	87.9	68.5	68.7	69.8	24.8		1.57
	Phenothrin	29.7	23.5	31.5	40.9	23.6		26.1
	Phorate	83.5	73.7	90.1	93.4	12.5		3.60
	Piperonyl Butoxide	107	106	91.7	101	1.14		9.49
	Prallethrin	37.1	22.7	30.7	43.7	48.2		34.8
	Prodiamine	45.2	49.5	53.9	83.5	9.01		43.2
	Prometon	88.4	91.2	95.3	100	3.06		5.13
	Prometryn	94.4	97.5	96.8	98.1	3.25		1.40
	Pronamide	95.3	96.9	83.8	93.7	1.61		8.65
	Propiconazole	91.9	96.1	82.0	91.2	4.52		8.17
	Pyriproxyfen	92.5	94.1	94.0	92.9	1.70		1.13
	Simazine	98.7	97.9			0.755		9.22
	Sulfentrazone	78.4	92.3	104	104	16.4		0.425
	Tau-Fluvalinate	126	135	106	125	6.63		16.8
	Tebuconazole	70.6	84.8	75.8	75.2	18.3		0.756
	Terbufos	82.0	84.0	91.5	88.6	2.48		3.24
	Terbuthylazine	89.5	93.1	92.6	94.2	3.92		1.75

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Tetramethrin	54.4	41.9	49.7	66.6	25.8		29.1
	Trans-Nonachlor	77.9	72.0	73.3	70.3	7.84		4.14
	Triclosan Methyl	98.4	93.5	102	93.9	5.10		8.19
	Trifluralin	80.2	77.1	72.4	71.1	3.92		1.77
EPA 8276	Chlordane	89.8	89.5	127	98.9	0.300		24.8
	Toxaphene	99.1	96.2	106	104	2.94		1.06
EPA 8321B	2,4-D	127		320	305			4.70
	2,4,5-T	101		117	117			0.565
	3-Hydroxycarbofuran	105		110	100			8.98
	Acesulfame K	121		192	197			2.67
	Acetaminophen	104		185	139			28.1
	Acetamiprid	91.2		116	113			2.29
	Afidopyropen	72.7		111	105			5.53
	Aldicarb	88.7		89.1	74.8			17.5
	Aldicarb Sulfone	135		132	123			6.96
	Aldicarb Sulfoxide	158		88.4	78.9			11.4
	AMPA	106		118	112			4.83
	Bentazon	104		300	300			0.0691
	Benzovindiflupyr	90.5		101	97.6			3.29
	Carbamazepine	96.6		115	112			2.16
	Carbaryl	81.3		60.4	56.5			6.73
	Carbofuran	83.9		63.6	58.6			8.04
	Clothianidin	101		119	121			1.44
	Dinotefuran	97.6		122	115			5.68
	Diuron	75.5		98.1	95.9			2.26
	Endothall	101		113	123			8.60
	Fenuron	99.3		105	98.4			6.78
	Fluridone	103		115	114			0.833
	Glufosinate	104		96.9	108			11.3
	Glyphosate	134		129	148			13.2
	Hydrocodone	101		131	123			6.47
	Ibuprofen	90.1		97.7	98.6			0.905
	Imazapyr	110						2.53
	Imidacloprid	105		148	144			2.74
	Linuron	87.9		97.3	87.1			11.1
	Mandestrobin	96.8		100	97.2			3.07
	MCPP	116		135	134			0.726
	Methiocarb	74.7		68.0	61.3			10.3
	Methomyl	133		109	103			5.24
	Naproxen	90.4		102	109			6.52
	Oxamyl	125		116	107			8.59
	Primidone	103		119	117			1.75
	Propoxur	88.4		67.8	60.8			10.9
	Pyraclostrobin	79.3		93.5	82.5			12.6
	Sucralose	138		106	106			0.533
	Thiamethoxam	105		138	136			1.69
	Tolfenpyrad	57.7		67.0	58.2			14.2
	Triclopyr	102		124	121			2.21

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Dieldrin (ultra low level) in water matrices by GC/MS/MS	2235838, 2235840

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS-SIM	2235838, 2235840
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2235839, 2235841
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2235838, 2235840
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2235834, 2235836
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2235835, 2235837
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2235835, 2235837

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	04/02/2021	04/05/2021 08:00	Fe-Val Siddell	04/06/2021 16:59	Michael Poppell	2235838
	04/02/2021	04/05/2021 08:00	Fe-Val Siddell	04/06/2021 17:21	Michael Poppell	2235840
	04/02/2021	04/05/2021 08:00	Fe-Val Siddell	04/07/2021 01:55	Arthur Maknenko	2235838
	04/02/2021	04/05/2021 08:00	Fe-Val Siddell	04/07/2021 02:27	Arthur Maknenko	2235840
	04/02/2021	04/06/2021 08:30	Rasheda Ghaffari	04/07/2021 17:13	Michael Poppell	2235839
	04/02/2021	04/06/2021 08:30	Rasheda Ghaffari	04/07/2021 17:39	Michael Poppell	2235841
	04/02/2021	04/19/2021 08:46	Chiran X. Ghimire	04/21/2021 16:59	Michael Poppell	2235841
EPA 8276	04/02/2021	04/05/2021 08:00	Fe-Val Siddell	04/08/2021 13:26	Julie Wi	2235838
	04/02/2021	04/05/2021 08:00	Fe-Val Siddell	04/08/2021 14:22	Julie Wi	2235840
EPA 8321B	04/02/2021	04/02/2021 15:00	Rebecca Ware	04/02/2021 16:10	Rebecca Ware	2235835
	04/02/2021	04/02/2021 15:00	Rebecca Ware	04/02/2021 16:23	Rebecca Ware	2235837
	04/02/2021	04/02/2021 15:00	Rebecca Ware	04/06/2021 19:58	Rebecca Ware	2235835
	04/02/2021	04/02/2021 15:00	Rebecca Ware	04/07/2021 11:53	Rebecca Ware	2235837
	04/02/2021	04/05/2021 08:30	Hoor Shaik	04/08/2021 16:35	Juyoung Kim	2235834
	04/02/2021	04/05/2021 08:30	Hoor Shaik	04/08/2021 17:10	Juyoung Kim	2235836
	04/02/2021	04/05/2021 09:00	Hoor Shaik	04/08/2021 07:21	Juyoung Kim	2235835
	04/02/2021	04/05/2021 09:00	Hoor Shaik	04/08/2021 07:56	Juyoung Kim	2235837
	04/02/2021	04/05/2021 09:00	Hoor Shaik	04/09/2021 03:34	Juyoung Kim	2235835