Chemical Analysis Report

NW-DIST-2021-04-06-01

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

Event Description: **Defuniak Run**
Request ID: **RQ-2021-04-05-37**
Customer: **NW-DIST**
Project ID: **SMP**

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

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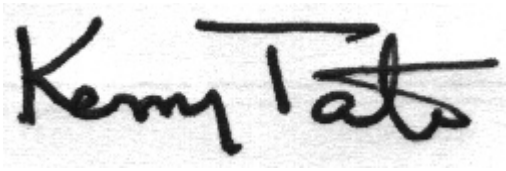
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 26-APR-2021 09:43



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: Shoal River Above Laird Road **Collection Date/Time: 04/05/2021 10:15**

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2236683	EPA 8321B	Aldicarb	0.020	U	ug/L	P396283	
		Aldicarb Sulfone	0.0020	U	ug/L	P396283	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P396283	
		Carbaryl	0.0020	U	ug/L	P396283	
		Carbofuran	0.0020	U	ug/L	P396283	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P396283	
		Methiocarb	0.0020	U	ug/L	P396283	
		Methomyl	0.0020	U	ug/L	P396283	
		Oxamyl	0.0020	U	ug/L	P396283	
		Propoxur	0.0020	U	ug/L	P396283	
2236684		2,4-D	0.019		ug/L	P396107	
		Acesulfame K	0.10	U	ug/L	P396006	
		2,4,5-T	0.0040	U	ug/L	P396107	
		AMPA	0.10	U	ug/L	P396006	
		Sucralose	0.077		ug/L	P396006	
		Acetaminophen	0.0080	U	ug/L	P396107	
		Acetamiprid	0.0020	U	ug/L	P396107	
		Endothall	0.25	U	ug/L	P396006	
		Glufosinate	0.10	U	ug/L	P396006	
		Glyphosate	0.10	U	ug/L	P396006	
		Afidopyropen	0.0020	U	ug/L	P396107	
		Bentazon	8.3E-04	I	ug/L	P396107	
		Benzovindiflupyr	0.0020	U	ug/L	P396107	
		Carbamazepine	8.0E-04	U	ug/L	P396107	
		Clothianidin	0.0020	U	ug/L	P396107	
		Dinotefuran	0.0020	U	ug/L	P396107	
		Diuron	0.0020	U	ug/L	P396107	
		Fenuron	0.016	U	ug/L	P396107	
		Fluridone	8.0E-04	U	ug/L	P396107	
		Imazapyr	0.020		ug/L	P396107	RPD
		Hydrocodone	0.0020	U	ug/L	P396107	
		Ibuprofen	0.020	U	ug/L	P396107	
		Imidacloprid	0.0042	I	ug/L	P396107	
		Linuron	0.0040	U	ug/L	P396107	
		Mandestrobin	0.0020	U	ug/L	P396107	
		MCPP	0.0020	U	ug/L	P396107	
		Naproxen	0.0080	U	ug/L	P396107	
		Primidone	0.0040	U	ug/L	P396107	
		Pyraclostrobin	0.0020	U	ug/L	P396107	
		Thiamethoxam	0.0020	U	ug/L	P396107	
		Tolfenpyrad	0.0020	U	ug/L	P396107	
		Triclopyr	0.0040	U	ug/L	P396107	
2236687	EPA 8270E	Aldrin	0.80	U	ng/L	P396134	
		Dieldrin	0.43	U	ng/L	P396134	

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2236687	EPA 8270E	Alpha-BHC	2.1	U	ng/L	P396134	
		Kepone**	5.9	U	ng/L	P396134	
		Alpha-Chlordane	1.1	U	ng/L	P396134	
		Beta-BHC	8.5	U	ng/L	P396134	RPD
		Beta-Cyfluthrin**	16	U	ng/L	P396134	
		Bifenthrin**	4.3	U	ng/L	P396134	
		Delta-BHC	8.5	U	ng/L	P396134	MS, RPD
		Gamma-BHC	8.5	U	ng/L	P396134	
		Chlorothalonil	2.1	U	ng/L	P396134	
		Cis-Nonachlor**	1.1	U	ng/L	P396134	
		Cypermethrin	21	U	ng/L	P396134	
		Dacthal**	1.1	U	ng/L	P396134	
		DDD-p,p'	5.3	U	ng/L	P396134	
		DDE-p,p'	5.3	U	ng/L	P396134	
		DDT-p,p'	6.4	U	ng/L	P396134	
		Deltamethrin**	21	U	ng/L	P396134	
		Dicofol	32	U	ng/L	P396134	
		Endosulfan I	4.3	U	ng/L	P396134	
		Endosulfan II	4.3	U	ng/L	P396134	
		Endosulfan Sulfate	2.1	U	ng/L	P396134	
		Endrin	2.1	U	ng/L	P396134	
		Endrin Aldehyde	2.1	U	ng/L	P396134	
		Endrin Ketone	2.1	U	ng/L	P396134	
		Ethalfluralin**	3.2	U	ng/L	P396134	
		Gamma-Chlordane	1.1	U	ng/L	P396134	
		Dichlobenil**	2.1	U	ng/L	P396134	MS, RPD
		Esfenvalerate**	21	U	ng/L	P396134	
		Fenpropathrin**	11	U	ng/L	P396134	
		Heptachlor	1.6	U	ng/L	P396134	
		Heptachlor Epoxide	2.1	U	ng/L	P396134	
		Hexachlorobenzene	2.1	U	ng/L	P396134	
		Lambda-Cyhalothrin**	16	U	ng/L	P396134	
		Methoxychlor	4.3	U	ng/L	P396134	
		Mirex	2.1	U	ng/L	P396134	
		MGK-264**	3.2	U	ng/L	P396134	MS
		Permethrin	11	U	ng/L	P396134	
		Phenothrin**	32	UJ	ng/L	P396134	LCS, MS
		Piperonyl Butoxide**	1.6	U	ng/L	P396134	
		Prallethrin**	27	UJ	ng/L	P396134	LCS
		Tau-Fluvalinate**	3.7	U	ng/L	P396134	
		Tetramethrin**	8.5	U	ng/L	P396134	RPD
		Trans-Nonachlor**	1.1	U	ng/L	P396134	
		Triclosan Methyl**	1.1	U	ng/L	P396134	
		Trifluralin	2.7	U	ng/L	P396134	
	EPA 8276	Chlordane	5.3	U	ng/L	P396134	

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2236687	EPA 8276	Toxaphene	32	U	ng/L	P396134	
2236688	EPA 8270E	Acetochlor	0.25	U	ng/L	P396046	
		Alachlor	0.25	U	ng/L	P396046	
		Ametryn	0.60	U	ng/L	P396046	RPD
		Atrazine	0.70	I	ng/L	P396046	
		Atrazine Desethyl	1.5	U	ng/L	P396046	
		Azinphos Methyl	2.0	U	ng/L	P396046	
		Azoxystrobin**	0.50	U	ng/L	P396046	
		Bromacil	0.50	U	ng/L	P396046	
		Butylate	0.40	U	ng/L	P396046	
		Caffeine**	13	I	ng/L	P396046	
		Carbophenothion	0.50	U	ng/L	P396046	
		Carfentrazone Ethyl**	0.10	U	ng/L	P396046	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P396046	
		Chlorpyrifos Methyl	0.050	U	ng/L	P396046	
		Cyanazine	3.3	U	ng/L	P396046	
		Demeton	1.5	U	ng/L	P396046	
		Diazinon	0.13	U	ng/L	P396046	
		Difenoconazole**	0.60	U	ng/L	P396046	
		Dimethenamid**	0.10	U	ng/L	P396046	
		Disulfoton	0.50	U	ng/L	P396046	
		Dithiopyr**	0.18	U	ng/L	P396046	
		EPTC	1.3	U	ng/L	P396046	
		Ethion	0.15	U	ng/L	P396046	
		Ethoprop	0.10	U	ng/L	P396046	
		Fenamiphos	0.50	U	ng/L	P396046	
		Fenbuconazole**	0.13	U	ng/L	P396046	
		Fipronil	0.25	U	ng/L	P396046	
		Fipronil Desulfinyl**	0.13	U	ng/L	P396046	
		Fipronil Sulfide	0.15	U	ng/L	P396046	
		Fipronil Sulfone	0.15	U	ng/L	P396046	
		Fluazifop-P-butyl**	0.10	U	ng/L	P396046	
		Fludioxonil**	0.13	U	ng/L	P396046	
		Flumioxazin**	1.8	U	ng/L	P396046	
		Flutolanil**	0.36	I	ng/L	P396046	
		Fluxapyroxad**	0.34	I	ng/L	P396046	
		Fonofos	0.20	U	ng/L	P396046	
		Hexazinone	1.1	I	ng/L	P396046	
		Imazalil**	0.75	U	ng/L	P396046	
		Iprodione**	0.60	U	ng/L	P396046	
		Malathion	0.35	U	ng/L	P396046	
		Metalaxyl	0.75	U	ng/L	P396046	
		Metolachlor	3.4		ng/L	P396046	
		Metribuzin	3.3	U	ng/L	P396046	
		Mevinphos	1.1	U	ng/L	P396046	

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2236688	EPA 8270E	Molinate	0.30	U	ng/L	P396046	
		Myclobutanil**	0.25	U	ng/L	P396046	
		Naled**	1.5	U	ng/L	P396046	
		Norflurazon	0.50	U	ng/L	P396046	
		Oxadiazon	0.31	UQ	ng/L	P396895	
		Oxyfluorfen**	0.15	U	ng/L	P396046	
		Parathion Ethyl	0.25	U	ng/L	P396046	
		Parathion Methyl	0.55	U	ng/L	P396046	
		Pendimethalin	1.0	U	ng/L	P396046	
		Phorate	0.53	U	ng/L	P396046	
		Prodiamine**	0.18	U	ng/L	P396046	
		Prometon	0.90	U	ng/L	P396046	
		Prometryn	0.20	U	ng/L	P396046	
		Pronamide**	0.15	U	ng/L	P396046	
		Propiconazole**	0.50	U	ng/L	P396046	
		Pyriproxyfen**	0.13	U	ng/L	P396046	
		Simazine	0.50	U	ng/L	P396046	
		Sulfentrazone**	0.50	U	ng/L	P396046	
		Tebuconazole**	0.50	U	ng/L	P396046	
		Terbufos	0.10	U	ng/L	P396046	
		Terbuthylazine	0.43	U	ng/L	P396046	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Sample expired for oxadiazon due to need for re-extraction.

Sample Location: Gum Creek **Collection Date/Time: 04/05/2021 13:00**

Field ID: G4NW0382 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2236685	EPA 8321B	2,4-D	0.0021	I	ug/L	P396107	
		Acesulfame K	0.10	U	ug/L	P396006	
		2,4,5-T	0.0040	U	ug/L	P396107	
		AMPA	0.10	U	ug/L	P396006	
		Sucralose	0.15		ug/L	P396006	
		Acetaminophen	0.0080	U	ug/L	P396107	
		Acetamiprid	0.0020	U	ug/L	P396107	
		Endothall	0.25	U	ug/L	P396006	
		Glufosinate	0.10	U	ug/L	P396006	
		Glyphosate	0.10	U	ug/L	P396006	
		Afidopyropen	0.0020	U	ug/L	P396107	
		Bentazon	8.0E-04	U	ug/L	P396107	
		Benzovindiflupyr	0.0020	U	ug/L	P396107	
		Carbamazepine	8.0E-04	U	ug/L	P396107	
		Clothianidin	0.0020	U	ug/L	P396107	
		Dinotefuran	0.0020	U	ug/L	P396107	
		Diuron	0.0020	U	ug/L	P396107	
		Fenuron	0.016	U	ug/L	P396107	
		Fluridone	8.0E-04	U	ug/L	P396107	
		Imazapyr	0.031		ug/L	P396107	RPD
		Hydrocodone	0.0020	U	ug/L	P396107	
		Ibuprofen	0.020	U	ug/L	P396107	
		Imidacloprid	0.0052	I	ug/L	P396107	
		Linuron	0.0040	U	ug/L	P396107	
		Mandestrobin	0.0020	U	ug/L	P396107	
		MCPP	0.0020	U	ug/L	P396107	
		Naproxen	0.0080	U	ug/L	P396107	
		Primidone	0.0040	U	ug/L	P396107	
		Pyraclostrobin	0.0020	U	ug/L	P396107	
		Thiamethoxam	0.0020	U	ug/L	P396107	
		Tolfenpyrad	0.0020	U	ug/L	P396107	
		Triclopyr	0.0040	U	ug/L	P396107	

Sample Location: Gum Creek Above Bonita Drive **Collection Date/Time: 04/05/2021 13:20**

Field ID: G4NW0381 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2236686	EPA 8321B	2,4-D	0.0021	I	ug/L	P396107	
		Acesulfame K	0.10	U	ug/L	P396006	
		2,4,5-T	0.0040	U	ug/L	P396107	
		AMPA	0.10	U	ug/L	P396006	
		Sucralose	0.16		ug/L	P396006	
		Acetaminophen	0.0080	U	ug/L	P396107	
		Acetamiprid	0.0020	U	ug/L	P396107	
		Endothall	0.25	U	ug/L	P396006	
		Glufosinate	0.10	U	ug/L	P396006	
		Glyphosate	0.10	U	ug/L	P396006	
		Afidopyropen	0.0020	U	ug/L	P396107	
		Bentazon	8.0E-04	U	ug/L	P396107	
		Benzovindiflupyr	0.0020	U	ug/L	P396107	
		Carbamazepine	8.0E-04	U	ug/L	P396107	
		Clothianidin	0.0020	U	ug/L	P396107	
		Dinotefuran	0.0020	U	ug/L	P396107	
		Diuron	0.0020	U	ug/L	P396107	
		Fenuron	0.016	U	ug/L	P396107	
		Fluridone	8.0E-04	U	ug/L	P396107	
		Imazapyr	0.036		ug/L	P396107	RPD
		Hydrocodone	0.0020	U	ug/L	P396107	
		Ibuprofen	0.020	U	ug/L	P396107	
		Imidacloprid	0.0047	I	ug/L	P396107	
		Linuron	0.0040	U	ug/L	P396107	
		Mandestrobin	0.0020	U	ug/L	P396107	
		MCPP	0.0020	U	ug/L	P396107	
		Naproxen	0.0080	U	ug/L	P396107	
		Primidone	0.0040	U	ug/L	P396107	
		Pyraclostrobin	0.0020	U	ug/L	P396107	
		Thiamethoxam	0.0020	U	ug/L	P396107	
		Tolfenpyrad	0.0020	U	ug/L	P396107	
		Triclopyr	0.0040	U	ug/L	P396107	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P396046

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
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P396046

Component	Result	Code	Units
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: P396134

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
Methoxychlor	4.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P396134

Component	Result	Code	Units
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: P396134

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

Reference Method: EPA 8321B
Batch ID: P396006

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: P396107

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P396107

Component	Result	Code	Units
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: P396283

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: P396046

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	84.4	97.6	P/P	70 - 121
Alachlor	84.7	92.7	P/P	70 - 119
Ametryn	89.1	71.6	P/P	61 - 135
Atrazine	91.6	99.3	P/P	76 - 123
Atrazine Desethyl	93.9	100	P/P	35 - 140
Azinphos Methyl	118	122	P/P	57 - 163
Azoxystrobin	138	174	P/P	43 - 231
Bromacil	82.5	90.5	P/P	42 - 123
Butylate	51.8	56.1	P/P	34 - 92.0
Caffeine	86.5	105	P/P	70 - 130
Carbophenothion	85.4	91.3	P/P	61 - 121
Carfentrazone Ethyl	93.2	96.0	P/P	62 - 139
Chlorpyrifos Ethyl	76.5	83.8	P/P	67 - 121
Chlorpyrifos Methyl	90.8	93.6	P/P	67 - 120
Cyanazine	122	123	P/P	20 - 226
Demeton	69.3	74.3	P/P	35 - 125
Diazinon	93.8	97.2	P/P	70 - 122
Difenoconazole	123	134	P/P	56 - 186
Dimethenamid	80.8	88.3	P/P	67 - 119
Disulfoton	93.2	86.7	P/P	47 - 120
Dithiopyr	88.5	93.9	P/P	67 - 118
EPTC	46.7	53.8	P/P	33 - 90.0
Ethion	54.6	70.8	P/P	40 - 133
Ethoprop	88.9	93.7	P/P	61 - 121
Fenamiphos	89.3	94.5	P/P	31 - 139
Fenbuconazole	103	108	P/P	66 - 141
Fipronil	90.5	94.2	P/P	62 - 129
Fipronil Desulfinyl	93.1	96.4	P/P	59 - 126
Fipronil Sulfide	82.9	107	P/P	63 - 117
Fipronil Sulfone	81.1	86.1	P/P	57 - 117
Fluazifop-P-butyl	93.7	100	P/P	63 - 124
Fludioxonil	87.4	95.9	P/P	63 - 123
Flumioxazin	145	152	P/P	34 - 245
Flutolanil	87.7	91.0	P/P	56 - 131
Fluxapyroxad	79.6	84.8	P/P	57 - 117
Fonofos	96.6	96.8	P/P	61 - 116
Hexazinone	83.8	90.8	P/P	55 - 138
Imazalil	86.7	113	P/P	33 - 143
Iprodione	93.8	94.1	P/P	59 - 118
Malathion	88.8	90.7	P/P	62 - 138
Metalaxyl	90.5	96.1	P/P	24 - 147
Metolachlor	82.5	88.0	P/P	68 - 118
Metribuzin	82.5	96.7	P/P	20 - 239
Mevinphos	87.8	95.5	P/P	46 - 124
Molinate	58.8	65.4	P/P	46 - 100
Myclobutanil	87.1	94.0	P/P	32 - 149
Naled	43.2	48.9	P/P	32 - 95.0
Norflurazon	89.9	98.9	P/P	57 - 127
Oxyfluorfen	106	104	P/P	69 - 137
Parathion Ethyl	91.7	92.9	P/P	70 - 113
Parathion Methyl	99.4	107	P/P	71 - 130
Pendimethalin	84.6	86.3	P/P	55 - 118

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P396046

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	74.9	81.4	P/P	46 - 125
Prodiamine	57.1	43.0	P/P	20 - 141
Prometon	83.2	88.1	P/P	54 - 122
Prometryn	94.4	99.9	P/P	66 - 124
Pronamide	95.3	98.8	P/P	79 - 122
Propiconazole	88.8	93.5	P/P	61 - 126
Pyriproxyfen	81.3	87.4	P/P	52 - 131
Simazine	97.5	110	P/P	75 - 128
Sulfentrazone	74.0	80.0	P/P	20 - 132
Tebuconazole	57.1	66.0	P/P	20 - 116
Terbufos	85.7	91.1	P/P	61 - 117
Terbuthylazine	85.1	93.1	P/P	74 - 116

Reference Method: EPA 8270E
Batch ID: P396134

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	20.5	21.0	P/P	20 - 110
Alpha-BHC	69.2	80.9	P/P	58 - 130
Alpha-Chlordane	76.5	74.9	P/P	61 - 105
Beta-BHC	90.3	89.3	P/P	53 - 164
Beta-Cyfluthrin	74.2	70.9	P/P	40 - 140
Bifenthrin	73.6	74.5	P/P	44 - 122
Chlorothalonil	79.1	83.4	P/P	20 - 201
Cis-Nonachlor	78.6	77.0	P/P	60 - 110
Cypermethrin	76.5	76.4	P/P	43 - 131
Dacthal	85.9	86.2	P/P	76 - 108
DDD-p,p'	83.8	85.1	P/P	68 - 118
DDE-p,p'	79.2	74.6	P/P	56 - 107
DDT-p,p'	75.2	72.5	P/P	55 - 122
Delta-BHC	120	110	P/P	60 - 181
Deltamethrin	89.5	84.9	P/P	51 - 139
Dichlobenil	55.6	64.5	P/P	20 - 106
Dicofol	89.1	89.6	P/P	56 - 130
Dieldrin	72.8	75.9	P/P	58 - 112
Endosulfan I	80.7	78.0	P/P	68 - 115
Endosulfan II	89.1	90.2	P/P	69 - 133
Endosulfan Sulfate	86.1	84.5	P/P	65 - 126
Endrin	79.7	80.2	P/P	66 - 118
Endrin Aldehyde	87.6	89.1	P/P	60 - 132
Endrin Ketone	85.3	86.8	P/P	68 - 121
Esfenvalerate	78.9	76.2	P/P	42 - 116
Ethalfluralin	66.5	70.9	P/P	50 - 118
Fenpropathrin	90.9	78.6	P/P	55 - 132
Gamma-BHC	83.4	89.7	P/P	65 - 147
Gamma-Chlordane	72.1	69.3	P/P	56 - 103
Heptachlor	59.1	64.4	P/P	47 - 95.0
Heptachlor Epoxide	76.7	76.6	P/P	67 - 107
Hexachlorobenzene	61.8	71.2	P/P	45 - 99.0
Kepone	120	116	P/P	28 - 128
Lambda-Cyhalothrin	72.7	73.1	P/P	41 - 135
Methoxychlor	85.5	86.2	P/P	61 - 138

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P396134

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MGK-264	22.8	21.1	P/P	20 - 109
Mirex	62.4	57.6	P/P	36 - 92.0
Permethrin	67.6	65.7	P/P	45 - 111
Phenothrin	21.8	18.3	F/F	22 - 88.0
Piperonyl Butoxide	96.0	97.3	P/P	67 - 120
Prallethrin	28.1	22.7	P/F	28 - 92.0
Tau-Fluvalinate	95.6	94.1	P/P	38 - 145
Tetramethrin	54.1	62.5	P/P	29 - 150
Trans-Nonachlor	75.2	72.4	P/P	54 - 105
Triclosan Methyl	91.0	90.0	P/P	76 - 115
Trifluralin	68.0	69.4	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: P396134

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.7	85.9	P/P	56 - 117
Toxaphene	101	98.8	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P396006

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	90.6		P	40 - 150
AMPA	117		P	40 - 150
Endothall	110		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	136		P	40 - 140
Sucralose	109		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P396107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	126		P	30 - 160
2,4,5-T	106		P	30 - 160
Acetaminophen	94.0		P	30 - 160
Acetamiprid	72.0		P	30 - 160
Afidopyropen	76.5		P	30 - 160
Bentazon	126		P	30 - 160
Benzovindiflupyr	91.5		P	30 - 160
Carbamazepine	99.0		P	30 - 160
Clothianidin	112		P	30 - 160
Dinotefuran	90.4		P	30 - 160
Diuron	71.7		P	30 - 160
Fenuron	76.4		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P396107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	105		P	30 - 160
Hydrocodone	103		P	30 - 160
Ibuprofen	90.1		P	30 - 160
Imazapyr	108		P	30 - 160
Imidacloprid	107		P	30 - 160
Linuron	80.4		P	30 - 160
Mandestrobin	94.7		P	30 - 160
MCPP	141		P	30 - 160
Naproxen	75.7		P	30 - 160
Primidone	89.6		P	30 - 160
Pyraclostrobin	78.6		P	30 - 160
Thiamethoxam	103		P	30 - 160
Tolfenpyrad	54.2		P	30 - 160
Triclopyr	114		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P396283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	89.9		P	30 - 160
Aldicarb	57.0		P	30 - 160
Aldicarb Sulfone	80.9		P	30 - 160
Aldicarb Sulfoxide	108		P	30 - 160
Carbaryl	62.6		P	30 - 160
Carbofuran	73.5		P	30 - 160
Methiocarb	64.5		P	30 - 160
Methomyl	93.4		P	30 - 160
Oxamyl	80.4		P	30 - 160
Propoxur	67.3		P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P396046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2234839	Acetochlor	91.2	85.4	P/P	66 - 122
2234839	Alachlor	85.1	89.5	P/P	65 - 122
2234839	Ametryn	76.1	109	P/P	45 - 173
2234839	Atrazine	107	107	P/P	70 - 134
2234839	Atrazine Desethyl	82.5	80.9	P/P	25 - 150
2234839	Azinphos Methyl	99.7	102	P/P	44 - 174
2234839	Azoxystrobin	143	133	P/P	10 - 268
2234839	Bromacil	78.2	78.2	P/P	31 - 145
2234839	Butylate	42.7	52.3	P/P	15 - 97.0
2234839	Caffeine	91.7	94.0	P/P	70 - 130
2234839	Carbophenothion	76.8	79.7	P/P	42 - 129
2234839	Carfentrazone Ethyl	84.3	80.2	P/P	62 - 145
2234839	Chlorpyrifos Ethyl	81.7	75.7	P/P	60 - 124
2234839	Chlorpyrifos Methyl	86.7	88.3	P/P	66 - 119
2234839	Cyanazine	109	117	P/P	17 - 225
2234839	Demeton	69.6	60.7	P/P	36 - 142
2234839	Diazinon	91.8	91.7	P/P	70 - 128
2234839	Difenoconazole	120	116	P/P	33 - 222
2234839	Dimethenamid	83.4	79.0	P/P	54 - 125
2234839	Disulfoton	82.7	90.5	P/P	49 - 133
2234839	Dithiopyr	89.4	82.2	P/P	55 - 123
2234839	EPTC	39.2	48.4	P/P	19 - 91.0
2234839	Ethion	70.0	57.6	P/P	13 - 143
2234839	Ethoprop	80.0	85.8	P/P	49 - 144
2234839	Fenamiphos	85.7	67.9	P/P	32 - 136
2234839	Fenbuconazole	97.1	96.6	P/P	73 - 148
2234839	Fipronil	88.8	88.8	P/P	57 - 129
2234839	Fipronil Desulfinyl	90.1	88.2	P/P	49 - 127
2234839	Fipronil Sulfide	97.5	82.6	P/P	44 - 127
2234839	Fipronil Sulfone	82.9	78.4	P/P	35 - 126
2234839	Fluazifop-P-butyl	89.2	88.3	P/P	67 - 129
2234839	Fludioxonil	85.6	83.0	P/P	61 - 126
2234839	Flumioxazin	145	139	P/P	38 - 279
2234839	Flutolanil	81.6	78.7	P/P	55 - 136
2234839	Fluxapyroxad	77.7	76.2	P/P	33 - 140
2234839	Fonofos	86.2	98.9	P/P	58 - 125
2234839	Hexazinone	88.1	87.4	P/P	57 - 148
2234839	Imazalil	90.7	92.4	P/P	10 - 221
2234839	Iprodione	82.6	79.2	P/P	32 - 140
2234839	Malathion	85.1	87.1	P/P	52 - 138
2234839	Metalaxyl	90.8	86.7	P/P	46 - 134
2234839	Metolachlor	82.9	78.2	P/P	58 - 122
2234839	Metribuzin	84.6	84.5	P/P	16 - 272
2234839	Mevinphos	71.9	83.6	P/P	45 - 140
2234839	Molinate	53.0	59.6	P/P	41 - 103
2234839	Myclobutanil	84.6	83.4	P/P	60 - 134
2234839	Naled	36.7	40.4	P/P	20 - 113
2234839	Norflurazon	86.4	85.7	P/P	51 - 123
2234839	Oxyfluorfen	100	94.7	P/P	66 - 176
2234839	Parathion Ethyl	79.5	82.3	P/P	57 - 132
2234839	Parathion Methyl	93.1	93.6	P/P	59 - 156
2234839	Pendimethalin	85.6	88.9	P/P	59 - 129

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P396046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2234839	Phorate	72.8	78.2	P/P	47 - 136
2234839	Prodiamine	53.3	42.4	P/P	10 - 159
2234839	Prometon	85.0	80.3	P/P	59 - 127
2234839	Prometryn	87.6	88.6	P/P	59 - 129
2234839	Pronamide	93.1	89.2	P/P	65 - 145
2234839	Propiconazole	84.8	82.4	P/P	28 - 165
2234839	Pyriproxyfen	80.3	76.9	P/P	21 - 180
2234839	Simazine	95.2	92.6	P/P	63 - 147
2234839	Sulfentrazone	76.8	71.8	P/P	32 - 136
2234839	Tebuconazole	59.6	55.9	P/P	10 - 117
2234839	Terbufos	85.0	88.4	P/P	61 - 131
2234839	Terbuthylazine	84.6	81.6	P/P	62 - 126

Reference Method: EPA 8270E
Batch ID: P396134

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2236687	Aldrin	47.6	55.3	P/P	22 - 127
2236687	Dieldrin	59.9	69.4	P/P	52 - 123
2236687	Kepone	76.3	96.3	P/P	18 - 138
2237375	Alpha-BHC	83.9	76.4	P/P	53 - 147
2237375	Alpha-Chlordane	83.9	77.2	P/P	56 - 107
2237375	Beta-BHC	135	90.1	P/P	43 - 182
2237375	Beta-Cyfluthrin	80.6	90.4	P/P	42 - 157
2237375	Bifenthrin	82.1	79.9	P/P	52 - 124
2237375	Chlorothalonil	107	113	P/P	10 - 265
2237375	Cis-Nonachlor	84.5	78.7	P/P	55 - 112
2237375	Cypermethrin	80.1	85.0	P/P	46 - 144
2237375	Dacthal	92.8	89.3	P/P	72 - 110
2237375	DDD-p,p'	89.8	84.0	P/P	58 - 123
2237375	DDE-p,p'	84.6	77.6	P/P	52 - 106
2237375	DDT-p,p'	75.6	74.4	P/P	50 - 127
2237375	Delta-BHC	238	117	F/P	56 - 222
2237375	Deltamethrin	85.4	90.9	P/P	47 - 152
2237375	Dichlobenil	7.18	64.3	F/P	22 - 99.0
2237375	Dicofol	87.7	90.1	P/P	38 - 145
2237375	Endosulfan I	87.8	81.3	P/P	64 - 124
2237375	Endosulfan II	95.8	94.8	P/P	52 - 159
2237375	Endosulfan Sulfate	83.2	89.8	P/P	62 - 136
2237375	Endrin	89.0	85.0	P/P	57 - 126
2237375	Endrin Aldehyde	90.0	90.8	P/P	41 - 128
2237375	Endrin Ketone	83.9	88.4	P/P	67 - 129
2237375	Esfenvalerate	82.2	80.9	P/P	50 - 120
2237375	Ethalfluralin	75.1	71.5	P/P	41 - 125
2237375	Fenpropathrin	87.9	85.7	P/P	40 - 202
2237375	Gamma-BHC	116	91.6	P/P	58 - 180
2237375	Gamma-Chlordane	81.0	73.1	P/P	54 - 103
2237375	Heptachlor	60.7	67.2	P/P	46 - 94.0
2237375	Heptachlor Epoxide	83.1	79.6	P/P	62 - 111
2237375	Hexachlorobenzene	82.1	67.7	P/P	42 - 95.0
2237375	Lambda-Cyhalothrin	79.0	88.3	P/P	37 - 162
2237375	Methoxychlor	87.1	84.5	P/P	52 - 143

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P396134

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2237375	MGK-264	35.0	27.4	F/F	37 - 102
2237375	Mirex	62.5	62.4	P/P	43 - 91.0
2237375	Permethrin	69.4	72.7	P/P	48 - 113
2237375	Phenothrin	32.0	27.6	P/F	30 - 104
2237375	Piperonyl Butoxide	97.1	108	P/P	67 - 127
2237375	Prallethrin	41.1	31.0	P/P	28 - 102
2237375	Tau-Fluvalinate	103	108	P/P	46 - 174
2237375	Tetramethrin	136	52.2	P/P	28 - 176
2237375	Trans-Nonachlor	82.7	75.7	P/P	51 - 103
2237375	Triclosan Methyl	98.5	93.2	P/P	67 - 116
2237375	Trifluralin	79.6	71.3	P/P	47 - 118

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: P396134

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2236687	Chlordane	65.7	73.2	P/P	47 - 128
2236687	Toxaphene	84.1	99.7	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P396006

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2236205	Acesulfame K	131	122	P/P	40 - 150
2236205	AMPA	108	118	P/P	40 - 150
2236205	Endothall	79.5	85.2	P/P	40 - 150
2236205	Glufosinate	96.1	106	P/P	40 - 150
2236205	Glyphosate	127	135	P/P	40 - 140
2236205	Sucralose	120	123	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P396107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2236205	2,4-D	143	138	P/P	30 - 160
2236205	2,4,5-T	107	118	P/P	30 - 160
2236205	Acetaminophen	129	115	P/P	30 - 160
2236205	Acetamiprid	98.1	97.0	P/P	30 - 160
2236205	Afidopyropen	82.9	69.8	P/P	30 - 160
2236205	Bentazon	80.2	85.5	P/P	30 - 160
2236205	Benzovindiflupyr	96.0	91.0	P/P	30 - 160
2236205	Carbamazepine	97.6	97.5	P/P	30 - 160
2236205	Clothianidin	138	132	P/P	30 - 160
2236205	Dinotefuran	124	125	P/P	30 - 160
2236205	Diuron	57.0	55.9	P/P	30 - 160
2236205	Fenuron	78.4	78.8	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P396107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2236205	Fluridone	95.8	96.3	P/P	30 - 160
2236205	Hydrocodone	115	125	P/P	30 - 160
2236205	Ibuprofen	80.1	78.6	P/P	30 - 160
2236205	Imazapyr	151	89.6	P/P	30 - 160
2236205	Imidacloprid	150	143	P/P	30 - 160
2236205	Linuron	71.9	69.3	P/P	30 - 160
2236205	Mandestrobin	94.0	91.5	P/P	30 - 160
2236205	MCPP	132	140	P/P	30 - 160
2236205	Naproxen	92.3	83.3	P/P	30 - 160
2236205	Primidone	123	119	P/P	30 - 160
2236205	Pyraclostrobin	82.6	81.3	P/P	30 - 160
2236205	Thiamethoxam	152	139	P/P	30 - 160
2236205	Tolfenpyrad	57.1	61.1	P/P	30 - 160
2236205	Triclopyr	112	114	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P396283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2236272	3-Hydroxycarbofuran	70.8	78.4	P/P	30 - 160
2236272	Aldicarb	57.0	72.2	P/P	30 - 160
2236272	Aldicarb Sulfone	99.7	92.2	P/P	30 - 160
2236272	Aldicarb Sulfoxide	43.3	40.0	P/P	30 - 160
2236272	Carbaryl	47.2	47.1	P/P	30 - 160
2236272	Carbofuran	57.7	56.2	P/P	30 - 160
2236272	Methiocarb	54.9	52.4	P/P	30 - 160
2236272	Methomyl	89.1	85.3	P/P	30 - 160
2236272	Oxamyl	89.4	82.1	P/P	30 - 160
2236272	Propoxur	53.7	53.0	P/P	30 - 160

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P396046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2234839	Acetochlor	6.50	Spike	P	0 - 30
2234839	Alachlor	5.00	Spike	P	0 - 30
2234839	Ametryn	35.5	Spike	F	0 - 30
2234839	Atrazine	0.294	Spike	P	0 - 30
2234839	Atrazine Desethyl	2.03	Spike	P	0 - 30
2234839	Azinphos Methyl	2.40	Spike	P	0 - 30
2234839	Azoxystrobin	6.78	Spike	P	0 - 30
2234839	Bromacil	0.0388	Spike	P	0 - 30
2234839	Butylate	20.3	Spike	P	0 - 30
2234839	Caffeine	2.41	Spike	P	0 - 30
2234839	Carbophenothion	3.76	Spike	P	0 - 30
2234839	Carfentrazone Ethyl	5.00	Spike	P	0 - 30
2234839	Chlorpyrifos Ethyl	7.53	Spike	P	0 - 30
2234839	Chlorpyrifos Methyl	1.79	Spike	P	0 - 30
2234839	Cyanazine	7.16	Spike	P	0 - 30
2234839	Demeton	13.6	Spike	P	0 - 30
2234839	Diazinon	0.0634	Spike	P	0 - 30
2234839	Difenoconazole	3.88	Spike	P	0 - 30
2234839	Dimethenamid	5.48	Spike	P	0 - 30
2234839	Disulfoton	9.08	Spike	P	0 - 30
2234839	Dithiopyr	8.44	Spike	P	0 - 30
2234839	EPTC	20.9	Spike	P	0 - 30
2234839	Ethion	19.4	Spike	P	0 - 30
2234839	Ethoprop	6.92	Spike	P	0 - 30
2234839	Fenamiphos	23.3	Spike	P	0 - 30
2234839	Fenbuconazole	0.477	Spike	P	0 - 30
2234839	Fipronil	0.0197	Spike	P	0 - 30
2234839	Fipronil Desulfinyl	2.15	Spike	P	0 - 30
2234839	Fipronil Sulfide	16.5	Spike	P	0 - 30
2234839	Fipronil Sulfone	5.61	Spike	P	0 - 30
2234839	Fluazifop-P-butyl	1.08	Spike	P	0 - 30
2234839	Fludioxonil	3.01	Spike	P	0 - 30
2234839	Flumioxazin	3.47	Spike	P	0 - 30
2234839	Flutolanil	3.62	Spike	P	0 - 30
2234839	Fluxapyroxad	1.92	Spike	P	0 - 30
2234839	Fonofos	13.7	Spike	P	0 - 30
2234839	Hexazinone	0.847	Spike	P	0 - 30
2234839	Imazalil	1.94	Spike	P	0 - 30
2234839	Iprodione	4.23	Spike	P	0 - 30
2234839	Malathion	2.40	Spike	P	0 - 30
2234839	Metalaxyl	4.63	Spike	P	0 - 30
2234839	Metolachlor	5.83	Spike	P	0 - 30
2234839	Metribuzin	0.0706	Spike	P	0 - 30
2234839	Mevinphos	15.0	Spike	P	0 - 30
2234839	Molinate	11.6	Spike	P	0 - 30
2234839	Myclobutanil	1.50	Spike	P	0 - 30
2234839	Naled	9.83	Spike	P	0 - 30
2234839	Norflurazon	0.770	Spike	P	0 - 30
2234839	Oxyfluorfen	5.84	Spike	P	0 - 30
2234839	Parathion Ethyl	3.49	Spike	P	0 - 30
2234839	Parathion Methyl	0.599	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P396046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2234839	Pendimethalin	3.76	Spike	P	0 - 30
2234839	Phorate	7.15	Spike	P	0 - 30
2234839	Prodiamine	22.6	Spike	P	0 - 30
2234839	Prometon	5.75	Spike	P	0 - 30
2234839	Prometryn	1.11	Spike	P	0 - 30
2234839	Pronamide	4.32	Spike	P	0 - 30
2234839	Propiconazole	2.93	Spike	P	0 - 30
2234839	Pyriproxyfen	4.27	Spike	P	0 - 30
2234839	Simazine	2.75	Spike	P	0 - 30
2234839	Sulfentrazone	6.73	Spike	P	0 - 30
2234839	Tebuconazole	6.31	Spike	P	0 - 30
2234839	Terbufos	3.96	Spike	P	0 - 30
2234839	Terbuthylazine	3.62	Spike	P	0 - 30
LFB	Acetochlor	14.5	LCS	P	0 - 30
LFB	Alachlor	9.03	LCS	P	0 - 30
LFB	Ametryn	21.8	LCS	P	0 - 30
LFB	Atrazine	8.08	LCS	P	0 - 30
LFB	Atrazine Desethyl	6.27	LCS	P	0 - 30
LFB	Azinphos Methyl	3.35	LCS	P	0 - 30
LFB	Azoxystrobin	23.0	LCS	P	0 - 30
LFB	Bromacil	9.17	LCS	P	0 - 30
LFB	Butylate	7.83	LCS	P	0 - 30
LFB	Caffeine	18.9	LCS	P	0 - 30
LFB	Carbophenothion	6.66	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	2.98	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	9.19	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.01	LCS	P	0 - 30
LFB	Cyanazine	0.499	LCS	P	0 - 30
LFB	Demeton	6.96	LCS	P	0 - 30
LFB	Diazinon	3.57	LCS	P	0 - 30
LFB	Difenoconazole	8.36	LCS	P	0 - 30
LFB	Dimethenamid	8.86	LCS	P	0 - 30
LFB	Disulfoton	7.23	LCS	P	0 - 30
LFB	Dithiopyr	5.97	LCS	P	0 - 30
LFB	EPTC	14.2	LCS	P	0 - 30
LFB	Ethion	25.8	LCS	P	0 - 30
LFB	Ethoprop	5.21	LCS	P	0 - 30
LFB	Fenamiphos	5.73	LCS	P	0 - 30
LFB	Fenbuconazole	5.20	LCS	P	0 - 30
LFB	Fipronil	4.01	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	3.52	LCS	P	0 - 30
LFB	Fipronil Sulfide	25.6	LCS	P	0 - 30
LFB	Fipronil Sulfone	6.01	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	6.79	LCS	P	0 - 30
LFB	Fludioxonil	9.21	LCS	P	0 - 30
LFB	Flumioxazin	4.59	LCS	P	0 - 30
LFB	Flutolanil	3.69	LCS	P	0 - 30
LFB	Fluxapyroxad	6.32	LCS	P	0 - 30
LFB	Fonofos	0.186	LCS	P	0 - 30
LFB	Hexazinone	8.00	LCS	P	0 - 30
LFB	Imazalil	26.5	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P396046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Iprodione	0.301	LCS	P	0 - 30
LFB	Malathion	2.16	LCS	P	0 - 30
LFB	Metalaxyl	5.98	LCS	P	0 - 30
LFB	Metolachlor	6.42	LCS	P	0 - 30
LFB	Metribuzin	15.8	LCS	P	0 - 30
LFB	Mevinphos	8.42	LCS	P	0 - 30
LFB	Molinate	10.7	LCS	P	0 - 30
LFB	Myclobutanil	7.59	LCS	P	0 - 30
LFB	Naled	12.3	LCS	P	0 - 30
LFB	Norflurazon	9.55	LCS	P	0 - 30
LFB	Oxyfluorfen	2.43	LCS	P	0 - 30
LFB	Parathion Ethyl	1.27	LCS	P	0 - 30
LFB	Parathion Methyl	7.07	LCS	P	0 - 30
LFB	Pendimethalin	1.99	LCS	P	0 - 30
LFB	Phorate	8.30	LCS	P	0 - 30
LFB	Prodiamine	28.0	LCS	P	0 - 30
LFB	Prometon	5.72	LCS	P	0 - 30
LFB	Prometryn	5.76	LCS	P	0 - 30
LFB	Pronamide	3.63	LCS	P	0 - 30
LFB	Propiconazole	5.21	LCS	P	0 - 30
LFB	Pyriproxyfen	7.15	LCS	P	0 - 30
LFB	Simazine	12.3	LCS	P	0 - 30
LFB	Sulfentrazone	7.78	LCS	P	0 - 30
LFB	Tebuconazole	14.4	LCS	P	0 - 30
LFB	Terbufos	6.05	LCS	P	0 - 30
LFB	Terbuthylazine	8.96	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P396134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2236687	Aldrin	15.0	Spike	P	0 - 30
2236687	Dieldrin	14.7	Spike	P	0 - 30
2236687	Kepone	23.2	Spike	P	0 - 30
2237375	Alpha-BHC	9.40	Spike	P	0 - 30
2237375	Alpha-Chlordane	8.29	Spike	P	0 - 30
2237375	Beta-BHC	39.9	Spike	F	0 - 30
2237375	Beta-Cyfluthrin	11.5	Spike	P	0 - 30
2237375	Bifenthrin	2.62	Spike	P	0 - 30
2237375	Chlorothalonil	5.50	Spike	P	0 - 30
2237375	Cis-Nonachlor	7.19	Spike	P	0 - 30
2237375	Cypermethrin	5.92	Spike	P	0 - 30
2237375	Dacthal	3.87	Spike	P	0 - 30
2237375	DDD-p,p'	6.74	Spike	P	0 - 30
2237375	DDE-p,p'	8.54	Spike	P	0 - 30
2237375	DDT-p,p'	1.62	Spike	P	0 - 30
2237375	Delta-BHC	68.1	Spike	F	0 - 30
2237375	Deltamethrin	6.28	Spike	P	0 - 30
2237375	Dichlobenil	160	Spike	F	0 - 30
2237375	Dicofol	2.73	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P396134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2237375	Endosulfan I	7.74	Spike	P	0 - 30
2237375	Endosulfan II	1.02	Spike	P	0 - 30
2237375	Endosulfan Sulfate	7.64	Spike	P	0 - 30
2237375	Endrin	4.52	Spike	P	0 - 30
2237375	Endrin Aldehyde	0.883	Spike	P	0 - 30
2237375	Endrin Ketone	5.23	Spike	P	0 - 30
2237375	Esfenvalerate	1.58	Spike	P	0 - 30
2237375	Ethalfluralin	4.80	Spike	P	0 - 30
2237375	Fenpropathrin	2.63	Spike	P	0 - 30
2237375	Gamma-BHC	23.2	Spike	P	0 - 30
2237375	Gamma-Chlordane	10.3	Spike	P	0 - 30
2237375	Heptachlor	10.2	Spike	P	0 - 30
2237375	Heptachlor Epoxide	4.37	Spike	P	0 - 30
2237375	Hexachlorobenzene	19.2	Spike	P	0 - 30
2237375	Lambda-Cyhalothrin	11.1	Spike	P	0 - 30
2237375	Methoxychlor	3.02	Spike	P	0 - 30
2237375	MGK-264	24.3	Spike	P	0 - 30
2237375	Mirex	0.169	Spike	P	0 - 30
2237375	Permethrin	4.64	Spike	P	0 - 30
2237375	Phenothrin	14.8	Spike	P	0 - 30
2237375	Piperonyl Butoxide	10.8	Spike	P	0 - 30
2237375	Prallethrin	28.0	Spike	P	0 - 30
2237375	Tau-Fluvalinate	4.97	Spike	P	0 - 30
2237375	Tetramethrin	88.9	Spike	F	0 - 30
2237375	Trans-Nonachlor	8.87	Spike	P	0 - 30
2237375	Triclosan Methyl	5.49	Spike	P	0 - 30
2237375	Trifluralin	10.9	Spike	P	0 - 30
LFB	Aldrin	2.44	LCS	P	0 - 30
LFB	Alpha-BHC	15.6	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.10	LCS	P	0 - 30
LFB	Beta-BHC	1.09	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	4.59	LCS	P	0 - 30
LFB	Bifenthrin	1.30	LCS	P	0 - 30
LFB	Chlorothalonil	5.33	LCS	P	0 - 30
LFB	Cis-Nonachlor	2.14	LCS	P	0 - 30
LFB	Cypermethrin	0.0140	LCS	P	0 - 30
LFB	Dacthal	0.353	LCS	P	0 - 30
LFB	DDD-p,p'	1.50	LCS	P	0 - 30
LFB	DDE-p,p'	5.93	LCS	P	0 - 30
LFB	DDT-p,p'	3.55	LCS	P	0 - 30
LFB	Delta-BHC	8.57	LCS	P	0 - 30
LFB	Deltamethrin	5.28	LCS	P	0 - 30
LFB	Dichlobenil	14.8	LCS	P	0 - 30
LFB	Dicofol	0.593	LCS	P	0 - 30
LFB	Dieldrin	4.22	LCS	P	0 - 30
LFB	Endosulfan I	3.41	LCS	P	0 - 30
LFB	Endosulfan II	1.19	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.83	LCS	P	0 - 30
LFB	Endrin	0.619	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.61	LCS	P	0 - 30
LFB	Endrin Ketone	1.68	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P396134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Esfenvalerate	3.55	LCS	P	0 - 30
LFB	Ethalfluralin	6.48	LCS	P	0 - 30
LFB	Fenpropathrin	14.4	LCS	P	0 - 30
LFB	Gamma-BHC	7.21	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.93	LCS	P	0 - 30
LFB	Heptachlor	8.57	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.140	LCS	P	0 - 30
LFB	Hexachlorobenzene	14.1	LCS	P	0 - 30
LFB	Kepone	3.38	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	0.570	LCS	P	0 - 30
LFB	Methoxychlor	0.876	LCS	P	0 - 30
LFB	MGK-264	7.49	LCS	P	0 - 30
LFB	Mirex	8.07	LCS	P	0 - 30
LFB	Permethrin	2.89	LCS	P	0 - 30
LFB	Phenothrin	17.4	LCS	P	0 - 30
LFB	Piperonyl Butoxide	1.34	LCS	P	0 - 30
LFB	Prallethrin	21.5	LCS	P	0 - 30
LFB	Tau-Fluvalinate	1.57	LCS	P	0 - 30
LFB	Tetramethrin	14.4	LCS	P	0 - 30
LFB	Trans-Nonachlor	3.79	LCS	P	0 - 30
LFB	Triclosan Methyl	1.18	LCS	P	0 - 30
LFB	Trifluralin	2.00	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: P396134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2236687	Chlordane	10.9	Spike	P	0 - 30
2236687	Toxaphene	16.9	Spike	P	0 - 30
LFB	Chlordane	12.7	LCS	P	0 - 30
LFB	Toxaphene	2.32	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P396006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2236205	Acesulfame K	6.75	Spike	P	0 - 30
2236205	AMPA	9.49	Spike	P	0 - 30
2236205	Endothall	6.82	Spike	P	0 - 30
2236205	Glufosinate	9.58	Spike	P	0 - 30
2236205	Glyphosate	5.77	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P396006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2236205	Sucralose	2.06	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P396107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2236205	2,4-D	3.56	Spike	P	0 - 30
2236205	2,4,5-T	9.44	Spike	P	0 - 30
2236205	Acetaminophen	11.3	Spike	P	0 - 30
2236205	Acetamiprid	1.11	Spike	P	0 - 30
2236205	Afidopyropen	17.1	Spike	P	0 - 30
2236205	Bentazon	6.44	Spike	P	0 - 30
2236205	Benzovindiflupyr	5.43	Spike	P	0 - 30
2236205	Carbamazepine	0.159	Spike	P	0 - 30
2236205	Clothianidin	4.12	Spike	P	0 - 30
2236205	Dinotefuran	0.574	Spike	P	0 - 30
2236205	Diuron	2.01	Spike	P	0 - 30
2236205	Fenuron	0.542	Spike	P	0 - 30
2236205	Fluridone	0.558	Spike	P	0 - 30
2236205	Hydrocodone	8.21	Spike	P	0 - 30
2236205	Ibuprofen	1.85	Spike	P	0 - 30
2236205	Imazapyr	45.5	Spike	F	0 - 30
2236205	Imidacloprid	4.35	Spike	P	0 - 30
2236205	Linuron	3.75	Spike	P	0 - 30
2236205	Mandestrobin	2.71	Spike	P	0 - 30
2236205	MCPP	5.55	Spike	P	0 - 30
2236205	Naproxen	10.3	Spike	P	0 - 30
2236205	Primidone	3.17	Spike	P	0 - 30
2236205	Pyraclostrobin	1.56	Spike	P	0 - 30
2236205	Thiamethoxam	9.22	Spike	P	0 - 30
2236205	Tolfenpyrad	6.77	Spike	P	0 - 30
2236205	Triclopyr	1.28	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P396283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2236272	3-Hydroxycarbofuran	10.3	Spike	P	0 - 30
2236272	Aldicarb	23.5	Spike	P	0 - 30
2236272	Aldicarb Sulfone	7.79	Spike	P	0 - 30
2236272	Aldicarb Sulfoxide	7.99	Spike	P	0 - 30
2236272	Carbaryl	0.208	Spike	P	0 - 30
2236272	Carbofuran	2.63	Spike	P	0 - 30
2236272	Methiocarb	4.59	Spike	P	0 - 30
2236272	Methomyl	4.16	Spike	P	0 - 30
2236272	Oxamyl	8.54	Spike	P	0 - 30
2236272	Propoxur	1.33	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: 2236683
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	50.7	P	30 - 160

Lab Sample ID: 2236684
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	144	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	97.6	P	30 - 160
EPA 8321B	Diuron-d6	70.7	P	30 - 160
EPA 8321B	Endothall-d6	89.7	P	40 - 160
EPA 8321B	Endothall-d6	89.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	117	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	117	P	40 - 160
EPA 8321B	Ibuprofen-d3	90.6	P	30 - 160
EPA 8321B	Primidone-d5	86.1	P	30 - 160
EPA 8321B	Sucralose-d6	141	P	30 - 160
EPA 8321B	Sucralose-d6	141	P	30 - 160

Lab Sample ID: 2236685
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	149	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	98.0	P	30 - 160
EPA 8321B	Diuron-d6	71.0	P	30 - 160
EPA 8321B	Endothall-d6	114	P	40 - 160
EPA 8321B	Endothall-d6	114	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	40 - 160
EPA 8321B	Ibuprofen-d3	92.0	P	30 - 160
EPA 8321B	Primidone-d5	113	P	30 - 160
EPA 8321B	Sucralose-d6	136	P	30 - 160
EPA 8321B	Sucralose-d6	136	P	30 - 160

Lab Sample ID: 2236686
Field Sample ID: G4NW0381

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	157	P	30 - 160
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Carbamazepine-d10	97.7	P	30 - 160
EPA 8321B	Diuron-d6	68.7	P	30 - 160
EPA 8321B	Endothall-d6	87.0	P	40 - 160
EPA 8321B	Endothall-d6	87.0	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	40 - 160
EPA 8321B	Ibuprofen-d3	90.1	P	30 - 160
EPA 8321B	Primidone-d5	118	P	30 - 160
EPA 8321B	Sucralose-d6	142	P	30 - 160
EPA 8321B	Sucralose-d6	142	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2236687
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.1	P	40 - 123
EPA 8270E	Decachlorobiphenyl	76.8	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	59.4	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	60.3	P	33 - 102
EPA 8276	Decachlorobiphenyl	71.4	P	29 - 92.0
EPA 8276	PCNB	84.6	P	43 - 134

Lab Sample ID: 2236688
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	87.5	P	20 - 200
EPA 8270E	Caffeine-d9	81.6	P	20 - 200
EPA 8270E	Simazine-d10	117	P	73 - 135
EPA 8270E	Simazine-d10	134	P	73 - 135
EPA 8270E	Terbufos-d10	109	P	58 - 130
EPA 8270E	Terbufos-d10	114	P	58 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A104605
Included Lab Sample IDs: 2236684, 2236685, 2236686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.5	95.4	P/P	50 - 150
2,4,5-T	93.7	96.3	P/P	50 - 150
Acetaminophen	97.4	94.8	P/P	60 - 160
Acetamiprid	126	128	P/P	50 - 150
Afidopyropen	121	121	P/P	50 - 150
Bentazon	118	134	P/P	50 - 160
Benzovindiflupyr	126	115	P/P	50 - 160
Carbamazepine	125	131	P/P	60 - 150
Clothianidin	126	116	P/P	60 - 150
Dinotefuran	100	112	P/P	50 - 150
Diuron	114	109	P/P	60 - 160
Fenuron	99.2	107	P/P	60 - 150
Fluridone	130	134	P/P	60 - 160
Hydrocodone	102	118	P/P	60 - 150
Ibuprofen	121	105	P/P	50 - 160
Imazapyr	123	101	P/P	50 - 160
Imidacloprid	105	83.9	P/P	60 - 150
Linuron	121	118	P/P	60 - 150
Mandestrobin	121	118	P/P	50 - 150
MCPP	103	101	P/P	50 - 150
Naproxen	92.1	97.2	P/P	50 - 160
Primidone	122	108	P/P	60 - 150
Pyraclostrobin	110	107	P/P	60 - 150
Thiamethoxam	124	113	P/P	50 - 150
Tolfenpyrad	131	108	P/P	60 - 150
Triclopyr	102	111	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A104623
Included Lab Sample IDs: 2236684, 2236685, 2236686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	135	143	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A104624
Included Lab Sample IDs: 2236684, 2236685, 2236686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	62.4	72.9	P/P	40 - 160
AMPA	120	116	P/P	40 - 160
Endothall	61.6	61.3	P/P	40 - 160
Glufosinate	101	102	P/P	40 - 160
Glyphosate	119	119	P/P	40 - 160

Reference Method: EPA 8276
Run ID: A104647
Included Lab Sample IDs: 2236687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A104647
Included Lab Sample IDs: 2236687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Toxaphene	97.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A104655
Included Lab Sample IDs: 2236688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.3		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	95.8		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	98.8		P	80 - 120
Azinphos Methyl	94.2		P	80 - 120
Azoxystrobin	98.5		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	103		P	80 - 120
Carbophenothion	94.6		P	80 - 120
Carfentrazone Ethyl	92.3		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	98.2		P	80 - 120
Cyanazine	96.0		P	80 - 120
Demeton	93.8		P	80 - 120
Diazinon	95.7		P	80 - 120
Difenoconazole	90.8		P	80 - 120
Dimethenamid	95.9		P	80 - 120
Disulfoton	99.3		P	80 - 120
Dithiopyr	96.9		P	80 - 120
EPTC	99.0		P	80 - 120
Ethion	95.2		P	80 - 120
Ethoprop	99.2		P	80 - 120
Fenamiphos	95.8		P	80 - 120
Fenbuconazole	96.2		P	80 - 120
Fipronil	93.6		P	80 - 120
Fipronil Desulfinyl	96.5		P	80 - 120
Fipronil Sulfide	98.8		P	80 - 120
Fipronil Sulfone	93.0		P	80 - 120
Fluazifop-P-butyl	92.8		P	80 - 120
Fludioxonil	95.5		P	80 - 120
Flumioxazin	92.6		P	80 - 120
Flutolanil	96.8		P	80 - 120
Fluxapyroxad	94.0		P	80 - 120
Fonofos	98.8		P	80 - 120
Hexazinone	98.2		P	80 - 120
Imazalil	93.0		P	80 - 120
Iprodione	92.8		P	80 - 120
Malathion	96.3		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	99.3		P	80 - 120
Metribuzin	92.0		P	80 - 120
Mevinphos	102		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A104655
Included Lab Sample IDs: 2236688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molinate	101		P	80 - 120
Myclobutanil	95.4		P	80 - 120
Naled	101		P	80 - 120
Norflurazon	101		P	80 - 120
Oxyfluorfen	94.4		P	80 - 120
Parathion Ethyl	97.8		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	104		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	93.2		P	80 - 120
Prometon	98.1		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	99.0		P	80 - 120
Propiconazole	97.3		P	80 - 120
Pyriproxyfen	97.9		P	80 - 120
Simazine	97.6		P	80 - 120
Sulfentrazone	93.7		P	80 - 120
Tebuconazole	97.0		P	80 - 120
Terbufos	99.7		P	80 - 120
Terbuthylazine	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A104660
Included Lab Sample IDs: 2236687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	99.5		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	90.0		P	80 - 120
Bifenthrin	97.3		P	80 - 120
Chlorothalonil	97.5		P	80 - 120
Cis-Nonachlor	99.3		P	80 - 120
Cypermethrin	91.0		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	108		P	80 - 120
Dichlobenil	107		P	80 - 120
Dicofol	95.9		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	99.4		P	80 - 120
Endosulfan Sulfate	99.0		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	100		P	80 - 120
Endrin Ketone	95.7		P	80 - 120
Esfenvalerate	94.5		P	80 - 120
Ethalfluralin	95.7		P	80 - 120
Fenpropathrin	86.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A104660
Included Lab Sample IDs: 2236687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	99.1		P	80 - 120
Heptachlor	96.5		P	80 - 120
Heptachlor Epoxide	98.9		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Lambda-Cyhalothrin	88.1		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	96.4		P	80 - 120
Mirex	98.4		P	80 - 120
Permethrin	87.3		P	80 - 120
Phenothrin	87.9		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	90.3		P	80 - 120
Tau-Fluvalinate	107		P	80 - 120
Tetramethrin	97.6		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	96.1		P	80 - 120

Reference Method: EPA 8321B
Run ID: A104684
Included Lab Sample IDs: 2236683

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	117	109	P/P	60 - 150
Aldicarb	94.3	93.9	P/P	60 - 150
Aldicarb Sulfone	106	105	P/P	50 - 150
Aldicarb Sulfoxide	103	101	P/P	50 - 150
Carbaryl	105	99.8	P/P	60 - 150
Carbofuran	114	111	P/P	50 - 150
Methiocarb	103	92.6	P/P	50 - 150
Methomyl	103	108	P/P	50 - 150
Oxamyl	103	88.3	P/P	50 - 150
Propoxur	101	104	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A104714
Included Lab Sample IDs: 2236687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	109		P	80 - 120
Dieldrin	101		P	80 - 120
Kepone	120		P	80 - 120

Reference Method: EPA 8270E
Run ID: A104909
Included Lab Sample IDs: 2236688

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

Quality Assurance Report
Calibration Verification

* 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	84.4	97.6	91.2	85.4	14.5		6.50
	Alachlor	84.7	92.7	85.1	89.5	9.03		5.00
	Aldrin	20.5	21.0	47.6	55.3	2.44		15.0
	Alpha-BHC	69.2	80.9	76.4	83.9	15.6		9.40
	Alpha-Chlordane	76.5	74.9	77.2	83.9	2.10		8.29
	Ametryn	89.1	71.6	76.1	109	21.8		35.5
	Atrazine	91.6	99.3	107	107	8.08		0.294
	Atrazine Desethyl	93.9	100	82.5	80.9	6.27		2.03
	Azinphos Methyl	122	118	99.7	102	3.35		2.40
	Azoxystrobin	174	138	143	133	23.0		6.78
	Beta-BHC	90.3	89.3	90.1	135	1.09		39.9
	Beta-Cyfluthrin	74.2	70.9	90.4	80.6	4.59		11.5
	Bifenthrin	73.6	74.5	79.9	82.1	1.30		2.62
	Bromacil	90.5	82.5	78.2	78.2	9.17		0.0388
	Butylate	56.1	51.8	42.7	52.3	7.83		20.3
	Caffeine	86.5	105	91.7	94.0	18.9		2.41
	Carbophenothion	85.4	91.3	76.8	79.7	6.66		3.76
	Carfentrazone Ethyl	93.2	96.0	84.3	80.2	2.98		5.00
	Chlorothalonil	79.1	83.4	107	113	5.33		5.50
	Chlorpyrifos Ethyl	76.5	83.8	81.7	75.7	9.19		7.53
	Chlorpyrifos Methyl	90.8	93.6	86.7	88.3	3.01		1.79
	Cis-Nonachlor	78.6	77.0	84.5	78.7	2.14		7.19
	Cyanazine	122	123	109	117	0.499		7.16
	Cypermethrin	76.5	76.4	80.1	85.0	0.0140		5.92
	Dacthal	85.9	86.2	89.3	92.8	0.353		3.87
	DDD-p,p'	83.8	85.1	84.0	89.8	1.50		6.74
	DDE-p,p'	79.2	74.6	77.6	84.6	5.93		8.54
	DDT-p,p'	75.2	72.5	74.4	75.6	3.55		1.62
	Delta-BHC	120	110	117	238	8.57		68.1
	Deltamethrin	89.5	84.9	90.9	85.4	5.28		6.28
	Demeton	69.3	74.3	69.6	60.7	6.96		13.6
	Diazinon	93.8	97.2	91.8	91.7	3.57		0.0634
	Dichlobenil	55.6	64.5	64.3	7.18	14.8		160
	Dicofol	89.1	89.6	90.1	87.7	0.593		2.73
	Dieldrin	72.8	75.9	59.9	69.4	4.22		14.7
	Difenoconazole	123	134	120	116	8.36		3.88
	Dimethenamid	80.8	88.3	83.4	79.0	8.86		5.48
	Disulfoton	93.2	86.7	82.7	90.5	7.23		9.08
	Dithiopyr	88.5	93.9	89.4	82.2	5.97		8.44
	Endosulfan I	80.7	78.0	81.3	87.8	3.41		7.74
	Endosulfan II	89.1	90.2	94.8	95.8	1.19		1.02
	Endosulfan Sulfate	86.1	84.5	89.8	83.2	1.83		7.64
	Endrin	79.7	80.2	85.0	89.0	0.619		4.52
	Endrin Aldehyde	87.6	89.1	90.8	90.0	1.61		0.883
	Endrin Ketone	85.3	86.8	88.4	83.9	1.68		5.23
	EPTC	46.7	53.8	39.2	48.4	14.2		20.9
	Esfenvalerate	78.9	76.2	80.9	82.2	3.55		1.58
	Ethalfluralin	66.5	70.9	71.5	75.1	6.48		4.80
	Ethion	54.6	70.8	70.0	57.6	25.8		19.4
	Ethoprop	88.9	93.7	80.0	85.8	5.21		6.92
	Fenamiphos	89.3	94.5	85.7	67.9	5.73		23.3
	Fenbuconazole	103	108	97.1	96.6	5.20		0.477
	Fenpropathrin	90.9	78.6	85.7	87.9	14.4		2.63
	Fipronil	90.5	94.2	88.8	88.8	4.01		0.0197

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Fipronil Desulfinyl	93.1	96.4	90.1	88.2	3.52		2.15
	Fipronil Sulfide	82.9	107	97.5	82.6	25.6		16.5
	Fipronil Sulfone	81.1	86.1	82.9	78.4	6.01		5.61
	Fluazifop-P-butyl	93.7	100	89.2	88.3	6.79		1.08
	Fludioxonil	87.4	95.9	85.6	83.0	9.21		3.01
	Flumioxazin	145	152	145	139	4.59		3.47
	Flutolanil	87.7	91.0	81.6	78.7	3.69		3.62
	Fluxapyroxad	79.6	84.8	77.7	76.2	6.32		1.92
	Fonofos	96.6	96.8	86.2	98.9	0.186		13.7
	Gamma-BHC	83.4	89.7	91.6	116	7.21		23.2
	Gamma-Chlordane	72.1	69.3	73.1	81.0	3.93		10.3
	Heptachlor	59.1	64.4	67.2	60.7	8.57		10.2
	Heptachlor Epoxide	76.7	76.6	79.6	83.1	0.140		4.37
	Hexachlorobenzene	61.8	71.2	67.7	82.1	14.1		19.2
	Hexazinone	83.8	90.8	88.1	87.4	8.00		0.847
	Imazalil	86.7	113	90.7	92.4	26.5		1.94
	Iprodione	93.8	94.1	82.6	79.2	0.301		4.23
	Kepone	120	116	76.3	96.3	3.38		23.2
	Lambda-Cyhalothrin	72.7	73.1	88.3	79.0	0.570		11.1
	Malathion	88.8	90.7	85.1	87.1	2.16		2.40
	Metalaxyl	90.5	96.1	90.8	86.7	5.98		4.63
	Methoxychlor	85.5	86.2	84.5	87.1	0.876		3.02
	Metolachlor	82.5	88.0	82.9	78.2	6.42		5.83
	Metribuzin	82.5	96.7	84.6	84.5	15.8		0.0706
	Mevinphos	87.8	95.5	71.9	83.6	8.42		15.0
	MGK-264	22.8	21.1	27.4	35.0	7.49		24.3
	Mirex	62.4	57.6	62.4	62.5	8.07		0.169
	Molinate	58.8	65.4	53.0	59.6	10.7		11.6
	Myclobutanil	87.1	94.0	84.6	83.4	7.59		1.50
	Naled	43.2	48.9	36.7	40.4	12.3		9.83
	Norflurazon	89.9	98.9	86.4	85.7	9.55		0.770
	Oxadiazon	80.6	98.2	79.6	76.3	19.7		3.12
	Oxyfluorfen	106	104	100	94.7	2.43		5.84
	Parathion Ethyl	91.7	92.9	79.5	82.3	1.27		3.49
	Parathion Methyl	99.4	107	93.1	93.6	7.07		0.599
	Pendimethalin	84.6	86.3	85.6	88.9	1.99		3.76
	Permethrin	67.6	65.7	72.7	69.4	2.89		4.64
	Phenothrin	21.8	18.3	27.6	32.0	17.4		14.8
	Phorate	74.9	81.4	72.8	78.2	8.30		7.15
	Piperonyl Butoxide	96.0	97.3	108	97.1	1.34		10.8
	Prallethrin	28.1	22.7	41.1	31.0	21.5		28.0
	Prodiamine	57.1	43.0	53.3	42.4	28.0		22.6
	Prometon	88.1	83.2	85.0	80.3	5.72		5.75
	Prometryn	99.9	94.4	87.6	88.6	5.76		1.11
	Pronamide	98.8	95.3	93.1	89.2	3.63		4.32
	Propiconazole	93.5	88.8	84.8	82.4	5.21		2.93
	Pyriproxyfen	87.4	81.3	80.3	76.9	7.15		4.27
	Simazine	110	97.5	95.2	92.6	12.3		2.75
	Sulfentrazone	80.0	74.0	76.8	71.8	7.78		6.73
	Tau-Fluvalinate	95.6	94.1	108	103	1.57		4.97
	Tebuconazole	66.0	57.1	59.6	55.9	14.4		6.31
	Terbufos	91.1	85.7	85.0	88.4	6.05		3.96
	Terbuthylazine	93.1	85.1	84.6	81.6	8.96		3.62
	Tetramethrin	54.1	62.5	52.2	136	14.4		88.9

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Trans-Nonachlor	75.2	72.4	75.7	82.7	3.79		8.87
	Triclosan Methyl	91.0	90.0	93.2	98.5	1.18		5.49
	Trifluralin	68.0	69.4	71.3	79.6	2.00		10.9
EPA 8276	Chlordane	85.9	75.7	65.7	73.2	12.7		10.9
	Toxaphene	101	98.8	84.1	99.7	2.32		16.9
EPA 8321B	2,4-D	126		143	138			3.56
	2,4,5-T	106		107	118			9.44
	3-Hydroxycarbofuran	89.9		70.8	78.4			10.3
	Acesulfame K	90.6		131	122			6.75
	Acetaminophen	94.0		129	115			11.3
	Acetamiprid	72.0		98.1	97.0			1.11
	Afidopyropen	76.5		82.9	69.8			17.1
	Aldicarb	57.0		57.0	72.2			23.5
	Aldicarb Sulfone	80.9		99.7	92.2			7.79
	Aldicarb Sulfoxide	108		43.3	40.0			7.99
	AMPA	117		108	118			9.49
	Bentazon	126		80.2	85.5			6.44
	Benzovindiflupyr	91.5		96.0	91.0			5.43
	Carbamazepine	99.0		97.6	97.5			0.159
	Carbaryl	62.6		47.2	47.1			0.208
	Carbofuran	73.5		57.7	56.2			2.63
	Clothianidin	112		138	132			4.12
	Dinotefuran	90.4		124	125			0.574
	Diuron	71.7		57.0	55.9			2.01
	Endothall	110		79.5	85.2			6.82
	Fenuron	76.4		78.4	78.8			0.542
	Fluridone	105		95.8	96.3			0.558
	Glufosinate	106		96.1	106			9.58
	Glyphosate	136		127	135			5.77
	Hydrocodone	103		115	125			8.21
	Ibuprofen	90.1		80.1	78.6			1.85
	Imazapyr	108		151	89.6			45.5
	Imidacloprid	107		150	143			4.35
	Linuron	80.4		71.9	69.3			3.75
	Mandestrobin	94.7		94.0	91.5			2.71
	MCPP	141		132	140			5.55
	Methiocarb	64.5		54.9	52.4			4.59
	Methomyl	93.4		89.1	85.3			4.16
	Naproxen	75.7		92.3	83.3			10.3
	Oxamyl	80.4		89.4	82.1			8.54
	Primidone	89.6		123	119			3.17
	Propoxur	67.3		53.7	53.0			1.33
	Pyraclostrobin	78.6		82.6	81.3			1.56
	Sucralose	109		120	123			2.06
	Thiamethoxam	103		152	139			9.22
	Tolfenpyrad	54.2		57.1	61.1			6.77
	Triclopyr	114		112	114			1.28

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Dieldrin (ultra low level) in water matrices by GC/MS/MS	2236687
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS-SIM	2236687

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2236688
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2236687
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2236683
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2236684, 2236685, 2236686
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2236684, 2236685, 2236686

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	04/06/2021	04/07/2021 08:30	Fe-Val Siddell	04/08/2021 18:55	Vandana T. Nagar	2236688
	04/06/2021	04/08/2021 09:00	Julie Wi	04/10/2021 05:35	Arthur Maknenko	2236687
	04/06/2021	04/08/2021 09:00	Julie Wi	04/12/2021 16:27	Julie Wi	2236687
	04/06/2021	04/19/2021 08:46	Chiran X. Ghimire	04/21/2021 17:25	Michael Poppell	2236688
EPA 8276	04/06/2021	04/08/2021 09:00	Julie Wi	04/10/2021 00:55	Julie Wi	2236687
EPA 8321B	04/06/2021	04/07/2021 14:00	Rebecca Ware	04/07/2021 18:58	Rebecca Ware	2236684
	04/06/2021	04/07/2021 14:00	Rebecca Ware	04/07/2021 19:10	Rebecca Ware	2236685
	04/06/2021	04/07/2021 14:00	Rebecca Ware	04/07/2021 19:22	Rebecca Ware	2236686
	04/06/2021	04/07/2021 14:00	Rebecca Ware	04/08/2021 18:28	Rebecca Ware	2236684
	04/06/2021	04/07/2021 14:00	Rebecca Ware	04/08/2021 18:42	Rebecca Ware	2236685
	04/06/2021	04/07/2021 14:00	Rebecca Ware	04/08/2021 18:56	Rebecca Ware	2236686
	04/06/2021	04/08/2021 10:00	Hoor Shaik	04/09/2021 15:42	Juyoung Kim	2236684
	04/06/2021	04/08/2021 10:00	Hoor Shaik	04/09/2021 16:16	Juyoung Kim	2236685
	04/06/2021	04/08/2021 10:00	Hoor Shaik	04/09/2021 16:51	Juyoung Kim	2236686
	04/06/2021	04/12/2021 09:00	Hoor Shaik	04/13/2021 00:21	Juyoung Kim	2236683