

Chemical Analysis Report

NE-DIST-2023-03-22-01

Florida DEP Laboratory
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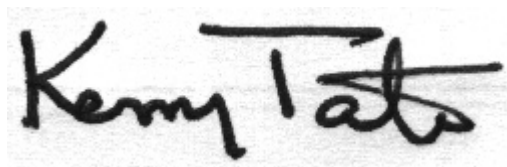
Event Description: **Suwannee North 2023**
Request ID: **RQ-2023-03-27-07**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Suite 100
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 13-APR-2023 10:31

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: HUNTERS CREEK AT SR 135

Collection Date/Time: 03/21/2023 10:25

Field ID: 21020063

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395887	EPA 8321B	2,4-D	0.0020	U	ug/L	P427647	
		Acesulfame K	0.10	U	ug/L	P427546	
		2,4,5-T	0.0040	U	ug/L	P427647	
		AMPA	0.10	U	ug/L	P427546	
		Acetaminophen	0.0080	U	ug/L	P427647	
		Acetamiprid	0.0020	U	ug/L	P427647	
		Endothall	0.25	U	ug/L	P427546	
		Glufosinate	0.10	U	ug/L	P427546	
		Glyphosate	0.10	U	ug/L	P427546	
		Afidopyropen	0.0020	U	ug/L	P427647	
		Bentazon	8.0E-04	U	ug/L	P427647	
		Sucralose	0.010	U	ug/L	P427546	
		Benzovindiflupyr	0.0020	U	ug/L	P427647	
		Carbamazepine	8.0E-04	U	ug/L	P427647	
		Clothianidin	0.0020	U	ug/L	P427647	
		Dinotefuran	0.0020	U	ug/L	P427647	
		Diuron	0.0020	U	ug/L	P427647	
		Fenuron	0.032	U	ug/L	P427647	
		Fluridone	8.0E-04	U	ug/L	P427647	
		Imazapyr	0.0046	I	ug/L	P427647	
		Hydrocodone	0.0020	U	ug/L	P427647	
		Ibuprofen	0.080	U	ug/L	P427647	
		Imidacloprid	0.0020	U	ug/L	P427647	
		Linuron	0.0040	U	ug/L	P427647	
		Mandestrobin	0.0020	U	ug/L	P427647	
		MCPP	0.0020	U	ug/L	P427647	
		Naproxen	0.0080	U	ug/L	P427647	
		Primidone	0.0040	U	ug/L	P427647	
		Pyraclostrobin	0.0020	U	ug/L	P427647	
		Silvex	0.0040	U	ug/L	P427647	
		Thiamethoxam	0.0020	U	ug/L	P427647	
		Tolfenpyrad	0.0020	U	ug/L	P427647	
		Triclopyr	0.0040	U	ug/L	P427647	

Sample Location: CANNON CR @ S WARD ST

Collection Date/Time: 03/21/2023 11:35

Field ID: 21030016FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395888	EPA 8321B	2,4-D	0.031		ug/L	P427647	
		Acesulfame K	0.10	U	ug/L	P427546	
		2,4,5-T	0.0040	U	ug/L	P427647	
		AMPA	0.19	I	ug/L	P427546	
		Acetaminophen	0.0080	U	ug/L	P427647	
		Acetamiprid	0.0020	U	ug/L	P427647	
		Endothall	0.25	U	ug/L	P427546	
		Glufosinate	0.10	U	ug/L	P427546	
		Glyphosate	0.21	I	ug/L	P427546	
		Afidopyropen	0.0020	U	ug/L	P427647	
		Bentazon	0.0044		ug/L	P427647	
		Sucralose	0.11		ug/L	P427546	
		Benzovindiflupyr	0.0020	U	ug/L	P427647	
		Carbamazepine	8.0E-04	U	ug/L	P427647	
		Clothianidin	0.0020	U	ug/L	P427647	
		Dinotefuran	0.0020	U	ug/L	P427647	
		Diuron	0.0020	U	ug/L	P427647	
		Fenuron	0.032	U	ug/L	P427647	
		Fluridone	8.0E-04	U	ug/L	P427647	
		Imazapyr	0.12		ug/L	P427647	
		Hydrocodone	0.0020	U	ug/L	P427647	
		Ibuprofen	0.080	U	ug/L	P427647	
		Imidacloprid	0.038		ug/L	P427647	
		Linuron	0.0040	U	ug/L	P427647	
		Mandestrobin	0.0020	U	ug/L	P427647	
		MCPP	0.0020	U	ug/L	P427647	
		Naproxen	0.0080	U	ug/L	P427647	
		Primidone	0.0040	U	ug/L	P427647	
		Pyraclostrobin	0.0020	U	ug/L	P427647	
		Silvex	0.0040	U	ug/L	P427647	
		Thiamethoxam	0.0020	U	ug/L	P427647	
		Tolfenpyrad	0.0020	U	ug/L	P427647	
		Triclopyr	0.0040	U	ug/L	P427647	

**Sample Location: CANNON CR @ CANNON CR RD/BUSINESS
PARK POINT W CR 47**

Collection Date/Time: 03/21/2023 11:45

Field ID: 21030138

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395885	EPA 8270E	Aldrin	0.67	U	ng/L	P427650	
		Alpha-BHC	0.10	U	ng/L	P427650	
		Alpha-Chlordane	0.21	U	ng/L	P427650	
		PCB-1016	2.1	U	ng/L	P427650	
		Beta-BHC	0.10	U	ng/L	P427650	
		PCB-1221	2.1	U	ng/L	P427650	
		Beta-Cyfluthrin	1.3	U	ng/L	P427650	
		PCB-1232	2.1	U	ng/L	P427650	
		Bifenthrin	0.51	U	ng/L	P427650	
		PCB-1242	2.1	U	ng/L	P427650	
		PCB-1248	2.1	U	ng/L	P427650	
		Chlorothalonil	3.7	U	ng/L	P427650	
		PCB-1254	2.1	U	ng/L	P427650	
		Cis-Nonachlor	0.21	U	ng/L	P427650	RPD
		PCB-1260	2.1	U	ng/L	P427650	
		Cypermethrin	1.5	U	ng/L	P427650	
		Dacthal	0.15	U	ng/L	P427650	
		DDD-p,p'	0.26	U	ng/L	P427650	
		DDE-p,p'	0.21	U	ng/L	P427650	
		DDT-p,p'	0.26	U	ng/L	P427650	
		Delta-BHC	0.41	U	ng/L	P427650	
		Deltamethrin	1.3	U	ng/L	P427650	
		Dichlobenil	0.26	U	ng/L	P427650	
		Dicofol	1.3	U	ng/L	P427650	
		Dieldrin	0.41	U	ng/L	P427650	
		Endosulfan I	0.41	U	ng/L	P427650	
		Endosulfan II	0.41	U	ng/L	P427650	
		Endosulfan Sulfate	0.31	U	ng/L	P427650	
		Endrin	0.41	U	ng/L	P427650	
		Endrin Aldehyde	0.77	U	ng/L	P427650	
		Endrin Ketone	0.41	U	ng/L	P427650	
		Esfenvalerate	0.77	U	ng/L	P427650	
		Ethalfuralin	0.15	U	ng/L	P427650	
		Fenpropathrin	0.26	U	ng/L	P427650	
		Gamma-BHC	0.13	U	ng/L	P427650	
		Gamma-Chlordane	0.21	U	ng/L	P427650	
		Heptachlor	0.21	U	ng/L	P427650	
		Heptachlor Epoxide	0.26	U	ng/L	P427650	
		Hexachlorobenzene**	1.0	U	ng/L	P427650	
		Kepone	5.1	U	ng/L	P427650	
		Lambda-Cyhalothrin	0.77	U	ng/L	P427650	
		Methoprene	0.77	U	ng/L	P427650	
		Methoxychlor	0.31	U	ng/L	P427650	

Field ID: 21030138

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395885	EPA 8270E	MGK-264	0.21	U	ng/L	P427650	
		Mirex	0.36	U	ng/L	P427650	
		Oxychlordane	0.31	U	ng/L	P427650	
		Permethrin	1.6	U	ng/L	P427650	
		Phenothrin	0.93	U	ng/L	P427650	
		Piperonyl Butoxide	0.15	U	ng/L	P427650	
		Prallethrin	2.1	U	ng/L	P427650	
		Tau-Fluvalinate	0.26	U	ng/L	P427650	
		Tetramethrin	0.77	U	ng/L	P427650	
		Trans-Nonachlor	0.21	U	ng/L	P427650	
		Triclosan Methyl	0.15	U	ng/L	P427650	
		Trifluralin	0.21	U	ng/L	P427650	
	EPA 8276	Chlordane	2.1	UJ	ng/L	P427650	LCS
		Toxaphene	15	U	ng/L	P427650	

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

Sample Location: FB

Collection Date/Time: 03/21/2023 11:50

Field ID: FB_03212023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395886	EPA 8270E	Aldrin	0.67	U	ng/L	P427650	
		Alpha-BHC	0.10	U	ng/L	P427650	
		Alpha-Chlordane	0.21	U	ng/L	P427650	
		PCB-1016	2.1	U	ng/L	P427650	
		Beta-BHC	0.10	U	ng/L	P427650	
		PCB-1221	2.1	U	ng/L	P427650	
		Beta-Cyfluthrin	1.3	U	ng/L	P427650	
		PCB-1232	2.1	U	ng/L	P427650	
		Bifenthrin	0.52	U	ng/L	P427650	
		PCB-1242	2.1	U	ng/L	P427650	
		PCB-1248	2.1	U	ng/L	P427650	
		Chlorothalonil	3.7	U	ng/L	P427650	
		PCB-1254	2.1	U	ng/L	P427650	
		Cis-Nonachlor	0.21	U	ng/L	P427650	RPD
		PCB-1260	2.1	U	ng/L	P427650	
		Cypermethrin	1.6	U	ng/L	P427650	
		Dacthal	0.16	U	ng/L	P427650	
		DDD-p,p'	0.26	U	ng/L	P427650	
		DDE-p,p'	0.21	U	ng/L	P427650	
		DDT-p,p'	0.26	U	ng/L	P427650	
		Delta-BHC	0.41	U	ng/L	P427650	
		Deltamethrin	1.3	U	ng/L	P427650	
		Dichlobenil	0.26	U	ng/L	P427650	
		Dicofol	1.3	U	ng/L	P427650	
		Dieldrin	0.41	U	ng/L	P427650	
		Endosulfan I	0.41	U	ng/L	P427650	
		Endosulfan II	0.41	U	ng/L	P427650	
		Endosulfan Sulfate	0.31	U	ng/L	P427650	
		Endrin	0.41	U	ng/L	P427650	
		Endrin Aldehyde	0.78	U	ng/L	P427650	
		Endrin Ketone	0.41	U	ng/L	P427650	
		Esfenvalerate	0.78	U	ng/L	P427650	
		Ethalfuralin	0.16	U	ng/L	P427650	
		Fenpropathrin	0.26	U	ng/L	P427650	
		Gamma-BHC	0.13	U	ng/L	P427650	
		Gamma-Chlordane	0.21	U	ng/L	P427650	
		Heptachlor	0.21	U	ng/L	P427650	
		Heptachlor Epoxide	0.26	U	ng/L	P427650	
		Hexachlorobenzene**	1.0	U	ng/L	P427650	
		Kepone	5.2	U	ng/L	P427650	
		Lambda-Cyhalothrin	0.78	U	ng/L	P427650	
		Methoprene	0.78	U	ng/L	P427650	
		Methoxychlor	0.31	U	ng/L	P427650	
		MGK-264	0.21	U	ng/L	P427650	

Field ID: FB_03212023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395886	EPA 8270E	Mirex	0.36	U	ng/L	P427650	
		Oxychlordane	0.31	U	ng/L	P427650	
		Permethrin	1.7	U	ng/L	P427650	
		Phenothrin	0.93	U	ng/L	P427650	
		Piperonyl Butoxide	0.16	U	ng/L	P427650	
		Prallethrin	2.1	U	ng/L	P427650	
		Tau-Fluvalinate	0.26	U	ng/L	P427650	
		Tetramethrin	0.78	U	ng/L	P427650	
		Trans-Nonachlor	0.21	U	ng/L	P427650	
		Triclosan Methyl	0.16	U	ng/L	P427650	
		Trifluralin	0.21	U	ng/L	P427650	
	EPA 8276	Chlordane	2.1	UJ	ng/L	P427650	LCS
		Toxaphene	16	U	ng/L	P427650	

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427650

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427650

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427650

Component	Result	Code	Units
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P427650

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

Reference Method: EPA 8321B

Batch ID: P427546

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: P427647

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P427647

Component	Result	Code	Units
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	46.9		P	10 - 92.0
Alpha-BHC	84.8		P	75 - 107
Alpha-Chlordane	59.1		P	50 - 108
Beta-BHC	108		P	36 - 138
Beta-Cyfluthrin	67.0		P	20 - 161
Bifenthrin	44.6		P	10 - 119
Chlorothalonil	95.2		P	26 - 186
Cis-Nonachlor	65.1		P	42 - 119
Cypermethrin	67.3		P	22 - 150
Dacthal	76.9		P	72 - 119
DDD-p,p'	76.6		P	45 - 107
DDE-p,p'	62.8		P	48 - 106
DDT-p,p'	62.9		P	48 - 110
Delta-BHC	99.5		P	54 - 140
Deltamethrin	68.2		P	22 - 189
Dichlobenil	74.4		P	36 - 117
Dicofol	46.1		P	46 - 155
Dieldrin	60.3		P	54 - 110
Endosulfan I	69.3		P	59 - 105
Endosulfan II	75.9		P	51 - 118
Endosulfan Sulfate	81.4		P	57 - 121
Endrin	60.3		P	10 - 120
Endrin Aldehyde	72.8		P	34 - 118
Endrin Ketone	94.4		P	69 - 177
Esfenvalerate	59.6		P	23 - 168
Ethalfuralin	57.0		P	49 - 99.0
Fenpropathrin	64.7		P	34 - 117
Gamma-BHC	91.9		P	72 - 117
Gamma-Chlordane	55.9		P	43 - 106
Heptachlor	56.7		P	41 - 98.0
Heptachlor Epoxide	60.5		P	57 - 106
Hexachlorobenzene	59.2		P	36 - 99.0
Kepone	175		P	16 - 215
Lambda-Cyhalothrin	54.6		P	21 - 177
Methoprene	27.7		P	10 - 119
Methoxychlor	93.3		P	60 - 112
MGK-264	69.9		P	26 - 122
Mirex	41.4		P	10 - 169
Oxychlordane	52.4		P	43 - 105
PCB-1016	60.4		P	48 - 112
PCB-1260	52.2		P	44 - 118
Permethrin	87.0		P	24 - 148
Phenothrin	58.5		P	10 - 106
Piperonyl Butoxide	79.3		P	10 - 139
Prallethrin	62.1		P	17 - 109
Tau-Fluvalinate	37.7		P	13 - 131
Tetramethrin	98.1		P	10 - 132
Trans-Nonachlor	48.5		P	44 - 106
Triclosan Methyl	65.6		P	59 - 109
Trifluralin	51.6		P	44 - 101

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P427650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	51.8		F	61 - 116
Toxaphene	54.3		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P427546

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	88.7		P	40 - 150
AMPA	104		P	40 - 150
Endothall	103		P	40 - 150
Glufosinate	92.3		P	40 - 150
Glyphosate	101		P	40 - 150
Sucralose	86.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427647

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	107		P	40 - 150
Acetaminophen	92.7		P	30 - 150
Acetamiprid	85.4		P	40 - 150
Afidopyropen	71.5		P	30 - 150
Bentazon	91.6		P	30 - 150
Benzovindiflupyr	95.2		P	40 - 150
Carbamazepine	95.2		P	40 - 150
Clothianidin	115		P	40 - 150
Dinotefuran	118		P	40 - 150
Diuron	89.1		P	40 - 150
Fenuron	109		P	40 - 150
Fluridone	76.7		P	40 - 150
Hydrocodone	126		P	40 - 150
Ibuprofen	66.0		P	40 - 150
Imazapyr	123		P	40 - 150
Imidacloprid	98.0		P	40 - 150
Linuron	89.6		P	40 - 150
Mandestrobin	87.5		P	40 - 150
MCPP	101		P	40 - 150
Naproxen	95.7		P	40 - 150
Primidone	103		P	40 - 150
Pyraclostrobin	79.6		P	40 - 150
Silvex	107		P	40 - 150
Thiamethoxam	117		P	40 - 150
Tolfenpyrad	54.8		P	30 - 150
Triclopyr	98.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395885	PCB-1016	69.1	65.1	P/P	46 - 111
2395885	PCB-1260	60.0	62.5	P/P	45 - 114
2396423	Aldrin	47.9	51.2	P/P	20 - 82.0
2396423	Alpha-BHC	97.4	91.4	P/P	71 - 109
2396423	Alpha-Chlordane	72.7	76.9	P/P	42 - 106
2396423	Beta-BHC	83.0	87.3	P/P	69 - 180
2396423	Beta-Cyfluthrin	87.7	103	P/P	18 - 175
2396423	Bifenthrin	74.1	68.0	P/P	21 - 128
2396423	Chlorothalonil	81.8	83.4	P/P	10 - 300
2396423	Cis-Nonachlor	63.8	102	P/P	34 - 106
2396423	Cypermethrin	91.7	106	P/P	22 - 158
2396423	Dacthal	82.0	90.8	P/P	54 - 116
2396423	DDD-p,p'	89.1	97.9	P/P	34 - 107
2396423	DDE-p,p'	81.3	81.7	P/P	33 - 110
2396423	DDT-p,p'	70.7	69.5	P/P	50 - 122
2396423	Delta-BHC	81.5	83.1	P/P	77 - 193
2396423	Deltamethrin	93.8	119	P/P	10 - 195
2396423	Dichlobenil	62.4	66.8	P/P	25 - 113
2396423	Dicofol	59.2	70.1	P/P	38 - 247
2396423	Dieldrin	87.0	87.8	P/P	45 - 118
2396423	Endosulfan I	71.6	76.4	P/P	51 - 106
2396423	Endosulfan II	87.0	76.0	P/P	37 - 122
2396423	Endosulfan Sulfate	76.4	74.7	P/P	43 - 132
2396423	Endrin	75.5	77.5	P/P	29 - 101
2396423	Endrin Aldehyde	63.3	59.0	P/P	19 - 110
2396423	Endrin Ketone	88.4	71.7	P/P	60 - 140
2396423	Esfenvalerate	83.1	97.0	P/P	26 - 199
2396423	Ethalfuralin	66.2	71.6	P/P	45 - 99.0
2396423	Fenpropathrin	71.9	81.8	P/P	35 - 120
2396423	Gamma-BHC	80.6	78.6	P/P	63 - 128
2396423	Gamma-Chlordane	84.6	87.5	P/P	40 - 104
2396423	Heptachlor	66.4	71.7	P/P	36 - 97.0
2396423	Heptachlor Epoxide	59.2	62.3	P/P	49 - 184
2396423	Hexachlorobenzene	61.4	60.4	P/P	39 - 96.0
2396423	Kepone	151	158	P/P	10 - 217
2396423	Lambda-Cyhalothrin	103	101	P/P	21 - 193
2396423	Methoprene	87.9	89.6	P/P	20 - 106
2396423	Methoxychlor	87.2	97.5	P/P	53 - 118
2396423	MGK-264	75.4	69.0	P/P	40 - 118
2396423	Mirex	65.0	60.9	P/P	26 - 92.0
2396423	Oxychlordane	84.3	76.0	P/P	44 - 99.0
2396423	Permethrin	97.3	107	P/P	33 - 182
2396423	Phenothrin	85.3	82.6	P/P	10 - 129
2396423	Piperonyl Butoxide	70.0	68.1	P/P	10 - 211
2396423	Prallethrin	105	104	P/P	24 - 113
2396423	Tau-Fluvalinate	71.0	98.0	P/P	14 - 149
2396423	Tetramethrin	124	124	P/P	17 - 151
2396423	Trans-Nonachlor	64.3	77.9	P/P	42 - 102
2396423	Triclosan Methyl	71.0	76.9	P/P	48 - 108
2396423	Trifluralin	60.6	74.0	P/P	47 - 96.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P427650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395885	Chlordane	56.4	60.3	P/P	53 - 126
2395885	Toxaphene	63.6	66.0	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P427546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395861	Acesulfame K	95.5	95.8	P/P	40 - 150
2395861	AMPA	114	111	P/P	40 - 150
2395861	Endothall	99.9	107	P/P	40 - 150
2395861	Glufosinate	88.5	87.3	P/P	40 - 150
2395861	Glyphosate	92.7	88.0	P/P	40 - 150
2395861	Sucralose	87.3	87.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395840	2,4-D	105	98.5	P/P	40 - 150
2395840	2,4,5-T	100	96.1	P/P	40 - 150
2395840	Acetaminophen	87.8	88.4	P/P	30 - 150
2395840	Acetamiprid	90.7	95.7	P/P	40 - 150
2395840	Afidopyropen	74.2	61.6	P/P	30 - 150
2395840	Bentazon	93.6	99.4	P/P	30 - 150
2395840	Benzovindiflupyr	88.7	83.8	P/P	40 - 150
2395840	Carbamazepine	95.1	97.0	P/P	40 - 150
2395840	Clothianidin	118	102	P/P	40 - 150
2395840	Dinotefuran	126	135	P/P	40 - 150
2395840	Diuron	90.9	76.6	P/P	40 - 150
2395840	Fenuron	101	89.4	P/P	40 - 150
2395840	Fluridone	83.0	78.8	P/P	40 - 150
2395840	Hydrocodone	137	131	P/P	40 - 150
2395840	Ibuprofen	72.8	74.6	P/P	40 - 150
2395840	Imazapyr	142	129	P/P	40 - 150
2395840	Imidacloprid	107	92.5	P/P	40 - 150
2395840	Linuron	79.9	90.8	P/P	40 - 150
2395840	Mandestrobin	86.3	81.7	P/P	40 - 150
2395840	MCPP	101	101	P/P	40 - 150
2395840	Naproxen	82.9	107	P/P	40 - 150
2395840	Primidone	101	106	P/P	40 - 150
2395840	Pyraclostrobin	70.2	68.7	P/P	40 - 150
2395840	Silvex	99.6	104	P/P	40 - 150
2395840	Thiamethoxam	128	110	P/P	40 - 150
2395840	Tolfenpyrad	44.9	46.2	P/P	30 - 150
2395840	Triclopyr	96.8	92.9	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P427650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395885	PCB-1016	5.95	Spike	P	0 - 32
2395885	PCB-1260	4.11	Spike	P	0 - 31
2396423	Aldrin	6.66	Spike	P	0 - 41
2396423	Alpha-BHC	6.36	Spike	P	0 - 25
2396423	Alpha-Chlordane	5.06	Spike	P	0 - 33
2396423	Beta-BHC	5.09	Spike	P	0 - 36
2396423	Beta-Cyfluthrin	15.6	Spike	P	0 - 42
2396423	Bifenthrin	8.69	Spike	P	0 - 53
2396423	Chlorothalonil	1.97	Spike	P	0 - 71
2396423	Cis-Nonachlor	46.0	Spike	F	0 - 29
2396423	Cypermethrin	14.1	Spike	P	0 - 40
2396423	Dacthal	10.1	Spike	P	0 - 26
2396423	DDD-p,p'	9.44	Spike	P	0 - 39
2396423	DDE-p,p'	0.416	Spike	P	0 - 33
2396423	DDT-p,p'	1.73	Spike	P	0 - 40
2396423	Delta-BHC	1.92	Spike	P	0 - 37
2396423	Deltamethrin	23.4	Spike	P	0 - 100
2396423	Dichlobenil	6.79	Spike	P	0 - 40
2396423	Dicofol	16.9	Spike	P	0 - 31
2396423	Dieldrin	0.679	Spike	P	0 - 27
2396423	Endosulfan I	6.49	Spike	P	0 - 23
2396423	Endosulfan II	13.4	Spike	P	0 - 28
2396423	Endosulfan Sulfate	2.31	Spike	P	0 - 38
2396423	Endrin	2.64	Spike	P	0 - 63
2396423	Endrin Aldehyde	6.99	Spike	P	0 - 60
2396423	Endrin Ketone	20.8	Spike	P	0 - 37
2396423	Esfenvalerate	15.4	Spike	P	0 - 52
2396423	Ethalfuralin	7.78	Spike	P	0 - 23
2396423	Fenpropathrin	13.0	Spike	P	0 - 32
2396423	Gamma-BHC	2.41	Spike	P	0 - 17
2396423	Gamma-Chlordane	3.37	Spike	P	0 - 40
2396423	Heptachlor	7.64	Spike	P	0 - 29
2396423	Heptachlor Epoxide	2.53	Spike	P	0 - 25
2396423	Hexachlorobenzene	1.75	Spike	P	0 - 36
2396423	Kepone	4.22	Spike	P	0 - 93
2396423	Lambda-Cyhalothrin	1.70	Spike	P	0 - 55
2396423	Methoprene	1.92	Spike	P	0 - 53
2396423	Methoxychlor	11.2	Spike	P	0 - 29
2396423	MGK-264	8.87	Spike	P	0 - 35
2396423	Mirex	6.39	Spike	P	0 - 46
2396423	Oxychlordane	10.3	Spike	P	0 - 29
2396423	Permethrin	9.82	Spike	P	0 - 44
2396423	Phenothrin	3.15	Spike	P	0 - 56
2396423	Piperonyl Butoxide	2.88	Spike	P	0 - 100
2396423	Prallethrin	0.477	Spike	P	0 - 42
2396423	Tau-Fluvalinate	31.9	Spike	P	0 - 54
2396423	Tetramethrin	0.261	Spike	P	0 - 51
2396423	Trans-Nonachlor	19.1	Spike	P	0 - 37
2396423	Triclosan Methyl	7.89	Spike	P	0 - 31
2396423	Trifluralin	19.8	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P427650

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395885	Chlordane	6.67	Spike	P	0 - 25
2395885	Toxaphene	3.63	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P427546

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395861	Acesulfame K	0.404	Spike	P	0 - 30
2395861	AMPA	2.09	Spike	P	0 - 30
2395861	Endothall	6.67	Spike	P	0 - 30
2395861	Glufosinate	1.38	Spike	P	0 - 30
2395861	Glyphosate	5.22	Spike	P	0 - 30
2395861	Sucralose	0.184	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P427647

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395840	2,4-D	6.46	Spike	P	0 - 30
2395840	2,4,5-T	4.13	Spike	P	0 - 30
2395840	Acetaminophen	0.713	Spike	P	0 - 30
2395840	Acetamiprid	5.39	Spike	P	0 - 30
2395840	Afidopyropen	18.6	Spike	P	0 - 30
2395840	Bentazon	6.03	Spike	P	0 - 30
2395840	Benzovindiflupyr	5.76	Spike	P	0 - 30
2395840	Carbamazepine	1.94	Spike	P	0 - 30
2395840	Clothianidin	14.6	Spike	P	0 - 30
2395840	Dinotefuran	6.91	Spike	P	0 - 30
2395840	Diuron	17.1	Spike	P	0 - 30
2395840	Fenuron	12.6	Spike	P	0 - 30
2395840	Fluridone	5.13	Spike	P	0 - 30
2395840	Hydrocodone	4.58	Spike	P	0 - 30
2395840	Ibuprofen	2.47	Spike	P	0 - 30
2395840	Imazapyr	9.58	Spike	P	0 - 30
2395840	Imidacloprid	14.2	Spike	P	0 - 30
2395840	Linuron	12.8	Spike	P	0 - 30
2395840	Mandestrobin	5.53	Spike	P	0 - 30
2395840	MCPP	0.560	Spike	P	0 - 30
2395840	Naproxen	25.4	Spike	P	0 - 30
2395840	Primidone	4.16	Spike	P	0 - 30
2395840	Pyraclostrobin	2.26	Spike	P	0 - 30
2395840	Silvex	4.74	Spike	P	0 - 30
2395840	Thiamethoxam	14.9	Spike	P	0 - 30
2395840	Tolfenpyrad	2.88	Spike	P	0 - 30
2395840	Triclopyr	4.07	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2395885

Field Sample ID: 21030138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	75.7	P	29 - 130
EPA 8270E	Decachlorobiphenyl	62.2	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	54.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	54.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	55.6	P	30 - 101
EPA 8276	PCNB	80.2	P	48 - 121

Lab Sample ID: 2395886

Field Sample ID: FB_03212023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	66.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	45.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	53.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	47.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	46.1	P	30 - 101
EPA 8276	PCNB	69.7	P	48 - 121

Lab Sample ID: 2395887

Field Sample ID: 21020063

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.8	P	30 - 160
EPA 8321B	Diuron-d6	55.1	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	156	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.3	P	30 - 160
EPA 8321B	Primidone-d5	89.5	P	30 - 160
EPA 8321B	Sucralose-d6	66.6	P	30 - 160

Lab Sample ID: 2395888

Field Sample ID: 21030016FLA

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.5	P	30 - 160
EPA 8321B	Diuron-d6	52.9	P	30 - 160
EPA 8321B	Endothall-d6	99.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.5	P	30 - 160
EPA 8321B	Primidone-d5	98.3	P	30 - 160
EPA 8321B	Sucralose-d6	85.7	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A118252

Included Lab Sample IDs: 2395887, 2395888

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	101	P/P	60 - 160
Endothall	116	104	P/P	60 - 160
Glufosinate	102	103	P/P	60 - 160
Glyphosate	117	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A118253

Included Lab Sample IDs: 2395887, 2395888

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	91.3	92.1	P/P	60 - 160
Sucralose	106	92.5	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A118309

Included Lab Sample IDs: 2395887, 2395888

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.6	95.2	P/P	50 - 150
2,4,5-T	97.6	93.7	P/P	50 - 150
Acetaminophen	104	105	P/P	60 - 160
Acetamiprid	117	119	P/P	50 - 150
Afidopyropen	93.8	124	P/P	50 - 150
Bentazon	117	128	P/P	50 - 160
Benzovindiflupyr	103	110	P/P	50 - 150
Carbamazepine	114	122	P/P	60 - 150
Clothianidin	131	131	P/P	60 - 150
Dinotefuran	134	149	P/P	50 - 150
Diuron	123	116	P/P	60 - 160
Fenuron	123	123	P/P	60 - 150
Fluridone	106	101	P/P	60 - 160
Hydrocodone	145	145	P/P	60 - 150
Ibuprofen	105	86.8	P/P	50 - 160
Imazapyr	135	134	P/P	50 - 150
Imidacloprid	104	107	P/P	60 - 150
Linuron	107	112	P/P	60 - 150
Mandestrobin	103	112	P/P	50 - 150
MCPP	95.8	87.7	P/P	50 - 150
Naproxen	101	131	P/P	50 - 160
Primidone	112	113	P/P	60 - 150
Pyraclostrobin	102	101	P/P	60 - 150
Silvex	93.1	104	P/P	50 - 150
Thiamethoxam	138	134	P/P	50 - 150
Tolfenpyrad	97.5	98.4	P/P	60 - 150
Triclopyr	107	105	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A118324

Included Lab Sample IDs: 2395885, 2395886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A118324

Included Lab Sample IDs: 2395885, 2395886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120
Chlordane	97.3		P	80 - 120
Toxaphene	103		P	80 - 120
Toxaphene	99.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A118385

Included Lab Sample IDs: 2395885, 2395886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.0		P	80 - 120
Alpha-BHC	105		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	93.8		P	80 - 120
Beta-Cyfluthrin	82.2		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	100		P	80 - 120
Cypermethrin	81.4		P	80 - 120
Dacthal	96.8		P	80 - 120
DDD-p,p'	90.2		P	80 - 120
DDE-p,p'	112		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	107		P	80 - 120
Deltamethrin	81.4		P	80 - 120
Dichlobenil	106		P	80 - 120
Dicofol	88.8		P	80 - 120
Dieldrin	109		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	110		P	80 - 120
Endosulfan Sulfate	90.2		P	80 - 120
Endrin	115		P	80 - 120
Endrin Aldehyde	82.8		P	80 - 120
Endrin Ketone	94.8		P	80 - 120
Esfenvalerate	88.9		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	80.9		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	113		P	80 - 120
Kepone	82.9		P	80 - 120
Methoprene	90.6		P	80 - 120
Methoxychlor	89.3		P	80 - 120
MGK-264	113		P	80 - 120
Mirex	94.2		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	81.7		P	80 - 120
Prallethrin	97.3		P	80 - 120
Tau-Fluvalinate	82.4		P	80 - 120
Trans-Nonachlor	111		P	80 - 120
Triclosan Methyl	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A118385

Included Lab Sample IDs: 2395885, 2395886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Trifluralin	99.4		P	80 - 120

Reference Method: EPA 8270E

Run ID: A118402

Included Lab Sample IDs: 2395885, 2395886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.4		P	80 - 120
PCB-1260	99.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A118403

Included Lab Sample IDs: 2395885, 2395886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	101		P	80 - 120
Hexachlorobenzene	99.6		P	80 - 120
Lambda-Cyhalothrin	97.8		P	80 - 120
Phenothrin	97.6		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Tetramethrin	98.2		P	80 - 120

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Aldrin	46.9	47.9	51.2			6.66
	Alpha-BHC	84.8	97.4	91.4			6.36
	Alpha-Chlordane	59.1	72.7	76.9			5.06
	Beta-BHC	108	83.0	87.3			5.09
	Beta-Cyfluthrin	67.0	87.7	103			15.6
	Bifenthrin	44.6	74.1	68.0			8.69
	Chlorothalonil	95.2	81.8	83.4			1.97
	Cis-Nonachlor	65.1	63.8	102			46.0
	Cypermethrin	67.3	91.7	106			14.1
	Dacthal	76.9	82.0	90.8			10.1
	DDD-p,p'	76.6	89.1	97.9			9.44
	DDE-p,p'	62.8	81.3	81.7			0.416
	DDT-p,p'	62.9	70.7	69.5			1.73
	Delta-BHC	99.5	81.5	83.1			1.92
	Deltamethrin	68.2	93.8	119			23.4
	Dichlobenil	74.4	62.4	66.8			6.79
	Dicofol	46.1	59.2	70.1			16.9
	Dieldrin	60.3	87.0	87.8			0.679
	Endosulfan I	69.3	71.6	76.4			6.49
	Endosulfan II	75.9	87.0	76.0			13.4
	Endosulfan Sulfate	81.4	76.4	74.7			2.31
	Endrin	60.3	75.5	77.5			2.64
	Endrin Aldehyde	72.8	63.3	59.0			6.99
	Endrin Ketone	94.4	88.4	71.7			20.8
	Esfenvalerate	59.6	83.1	97.0			15.4
	Ethalfuralin	57.0	66.2	71.6			7.78
	Fenpropathrin	64.7	71.9	81.8			13.0
	Gamma-BHC	91.9	80.6	78.6			2.41
	Gamma-Chlordane	55.9	84.6	87.5			3.37
	Heptachlor	56.7	66.4	71.7			7.64
	Heptachlor Epoxide	60.5	59.2	62.3			2.53
	Hexachlorobenzene	59.2	61.4	60.4			1.75
	Kepone	175	151	158			4.22
	Lambda-Cyhalothrin	54.6	103	101			1.70
	Methoprene	27.7	87.9	89.6			1.92
	Methoxychlor	93.3	87.2	97.5			11.2
	MGK-264	69.9	75.4	69.0			8.87
	Mirex	41.4	65.0	60.9			6.39
	Oxychlordane	52.4	84.3	76.0			10.3
	PCB-1016	60.4	69.1	65.1			5.95
	PCB-1260	52.2	60.0	62.5			4.11
	Permethrin	87.0	97.3	107			9.82
	Phenothrin	58.5	85.3	82.6			3.15
	Piperonyl Butoxide	79.3	70.0	68.1			2.88
	Prallethrin	62.1	105	104			0.477
	Tau-Fluvalinate	37.7	71.0	98.0			31.9
	Tetramethrin	98.1	124	124			0.261
	Trans-Nonachlor	48.5	64.3	77.9			19.1
	Triclosan Methyl	65.6	71.0	76.9			7.89
	Trifluralin	51.6	60.6	74.0			19.8
EPA 8276	Chlordane	51.8	56.4	60.3			6.67
	Toxaphene	54.3	63.6	66.0			3.63
EPA 8321B	2,4-D	106	105	98.5			6.46
	2,4,5-T	107	100	96.1			4.13

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
EPA 8321B	Acesulfame K	88.7	95.5	95.8		0.404
	Acetaminophen	92.7	87.8	88.4		0.713
	Acetamiprid	85.4	90.7	95.7		5.39
	Afidopyropen	71.5	74.2	61.6		18.6
	AMPA	104	114	111		2.09
	Bentazon	91.6	93.6	99.4		6.03
	Benzovindiflupyr	95.2	88.7	83.8		5.76
	Carbamazepine	95.2	95.1	97.0		1.94
	Clothianidin	115	118	102		14.6
	Dinotefuran	118	126	135		6.91
	Diuron	89.1	90.9	76.6		17.1
	Endothall	103	99.9	107		6.67
	Fenuron	109	101	89.4		12.6
	Fluridone	76.7	83.0	78.8		5.13
	Glufosinate	92.3	88.5	87.3		1.38
	Glyphosate	101	92.7	88.0		5.22
	Hydrocodone	126	137	131		4.58
	Ibuprofen	66.0	72.8	74.6		2.47
	Imazapyr	123	142	129		9.58
	Imidacloprid	98.0	107	92.5		14.2
	Linuron	89.6	79.9	90.8		12.8
	Mandestrobin	87.5	86.3	81.7		5.53
	MCPP	101	101	101		0.560
	Naproxen	95.7	82.9	107		25.4
	Primidone	103	101	106		4.16
	Pyraclostrobin	79.6	70.2	68.7		2.26
	Silvex	107	99.6	104		4.74
	Sucralose	86.8	87.3	87.5		0.184
	Thiamethoxam	117	128	110		14.9
	Tolfenpyrad	54.8	44.9	46.2		2.88
	Triclopyr	98.0	96.8	92.9		4.07

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2395885, 2395886
EPA 8270E	PCBs in water matrices by GC/MS/MS	2395885, 2395886
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2395885, 2395886
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2395887, 2395888

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	04/04/2023 18:02	Michael Poppell	2395885
	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	04/04/2023 18:32	Michael Poppell	2395886
	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	04/05/2023 20:44	Michael Poppell	2395885
	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	04/05/2023 21:13	Michael Poppell	2395886
	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	04/05/2023 23:23	Vandana T. Nagar	2395885
	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	04/05/2023 23:53	Vandana T. Nagar	2395886
	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	03/31/2023 03:26	Arthur Maknenko	2395885
EPA 8276	03/22/2023	03/28/2023 09:00	Rasheda Ghaffari	03/31/2023 11:05	Arthur Maknenko	2395886
EPA 8321B	03/22/2023	03/24/2023 13:00	Manjita Shrestha	03/24/2023 22:21	Manjita Shrestha	2395887
	03/22/2023	03/24/2023 13:00	Manjita Shrestha	03/24/2023 22:35	Manjita Shrestha	2395888
	03/22/2023	03/24/2023 13:00	Manjita Shrestha	03/25/2023 06:36	Manjita Shrestha	2395887
	03/22/2023	03/24/2023 13:00	Manjita Shrestha	03/25/2023 06:49	Manjita Shrestha	2395888
	03/22/2023	03/28/2023 09:00	Hoor Shaik	03/30/2023 23:46	Juyoung Kim	2395887
	03/22/2023	03/28/2023 09:00	Hoor Shaik	03/31/2023 00:05	Juyoung Kim	2395888